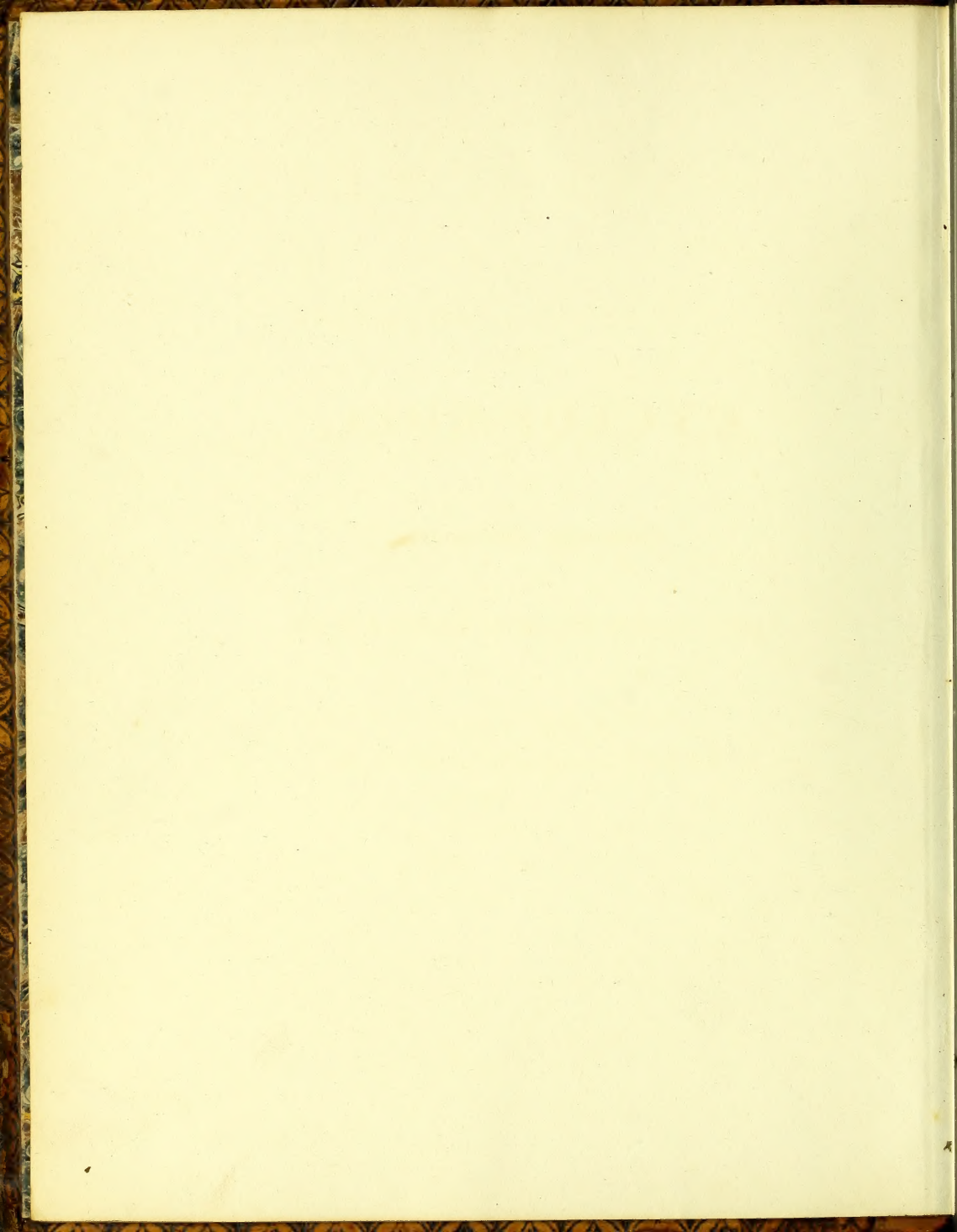




030.1



THE
CYCLOPÆDIA;

OR,

Universal Dictionary

OF

ARTS, SCIENCES, AND LITERATURE.

PLATES. VOL. I.

AGRICULTURE — ASTRONOMICAL INSTRUMENTS.

CYCLOPEDIA

OF THE

ARTS, SCIENCES, AND LITERATURE

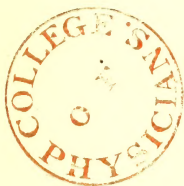
OF THE

ANTIENT AND MODERN

THE
CYCLOPÆDIA;
OR,
UNIVERSAL DICTIONARY
OF
Arts, Sciences, and Literature.

BY
ABRAHAM REES, D.D. F.R.S. F.L.S. *S. Amer. Soc.*

WITH THE ASSISTANCE OF
EMINENT PROFESSIONAL GENTLEMEN.



ILLUSTRATED WITH NUMEROUS ENGRAVINGS,
BY THE MOST DISTINGUISHED ARTISTS.

PLATES. VOL. I.
AGRICULTURE — ASTRONOMICAL INSTRUMENTS.

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1820.

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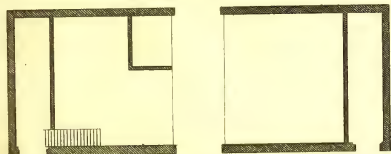
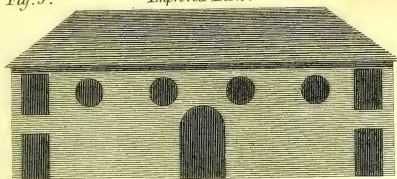
PLATES VOL I

AGRICULTURE — AGRICULTURAL INSTRUMENTS

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Fig. 3. Improved Barn.



Common Barn.

Fig. 2.

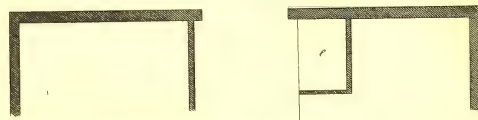
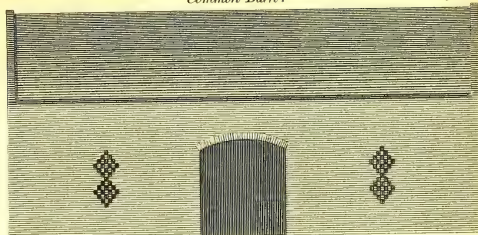


Fig. 4.

Open Barn.

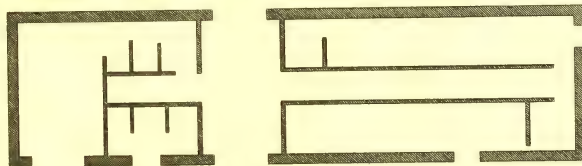
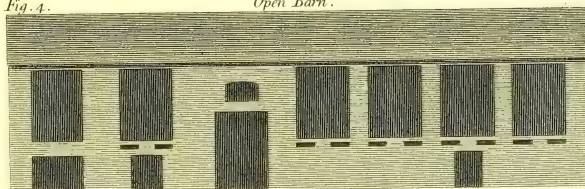
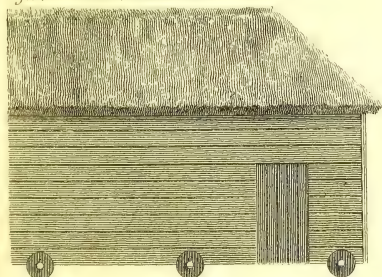
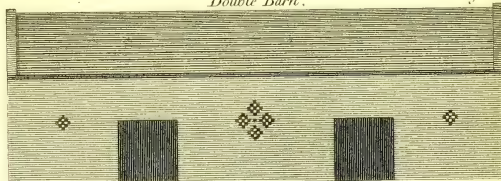


Fig. 5. Dutch moveable Barn.



Double Barn.

Fig. 6.





BARNS, AND THRESHING MACHINES.

Fig. 4.

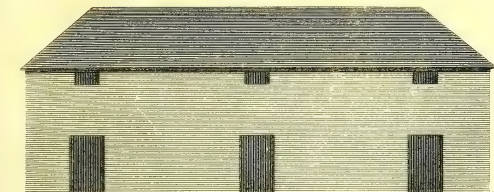


Fig. 1.

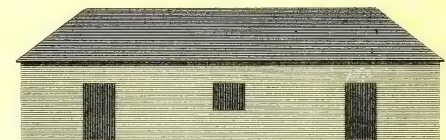


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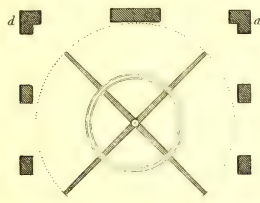


Fig. 2.

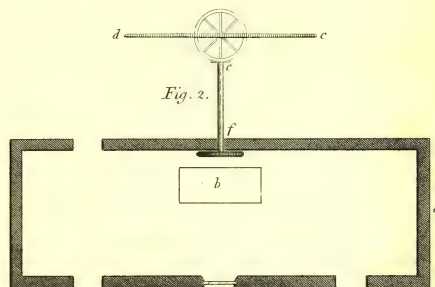
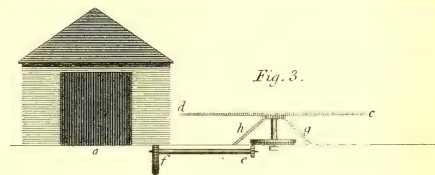


Fig. 3.



Scale for Fig. 1, 2, 3, 4, 5 & 6.

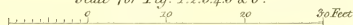


Fig. 6.

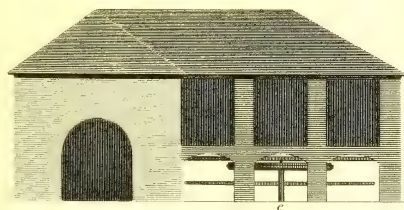
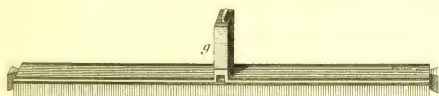
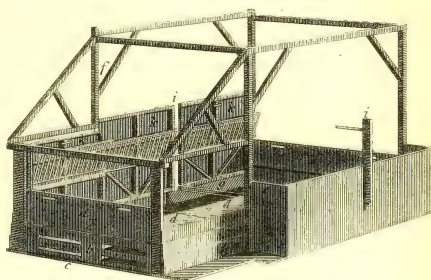


Fig. 7.



Engraved by Wilson Lowry.



Fig. 1.
Blasting Stone.

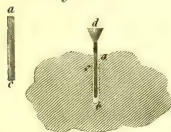


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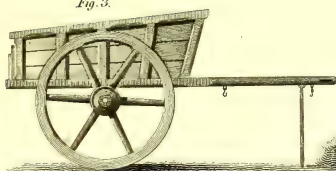


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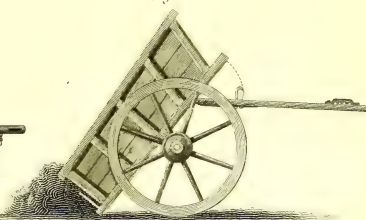


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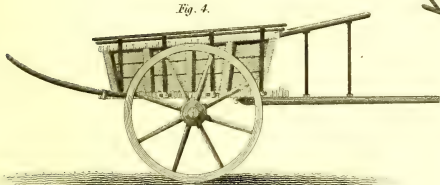


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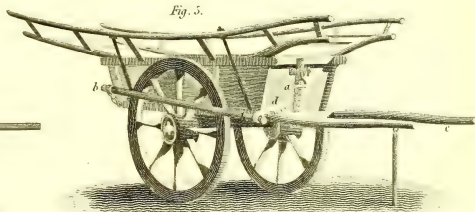


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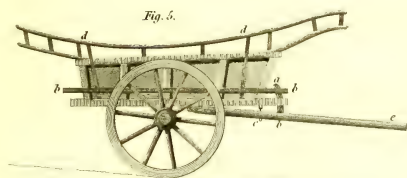


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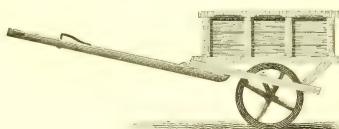


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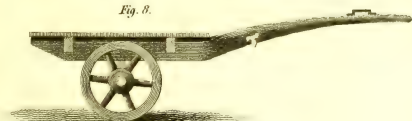
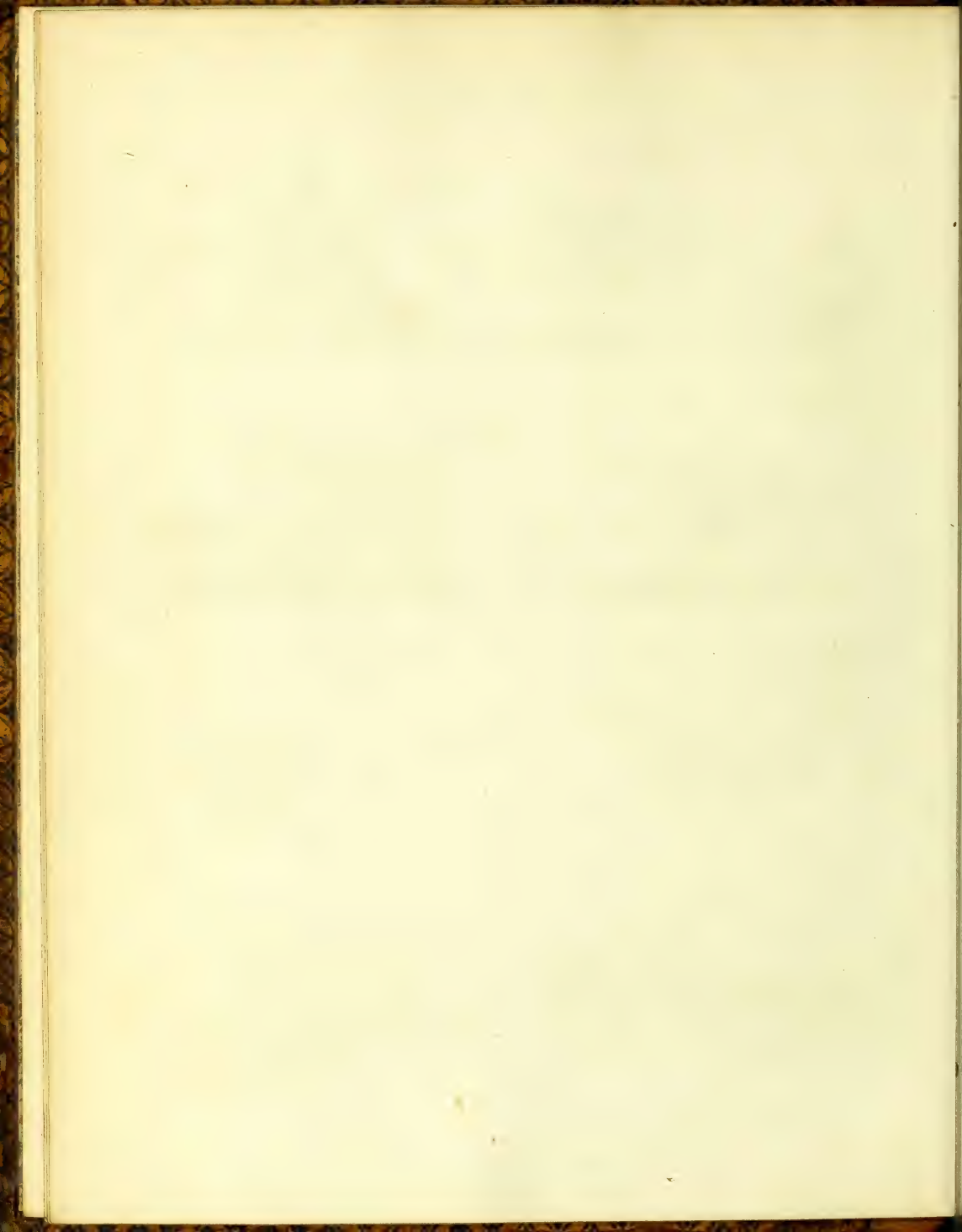


Fig. 9.





CALF PENS, CATTLE SHEDS & FEEDING HOUSES.

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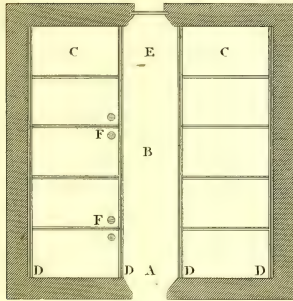
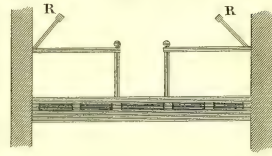


Fig. 2.



CURD CUTTER.

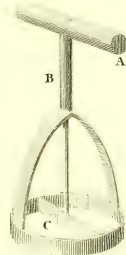


Fig. 4.

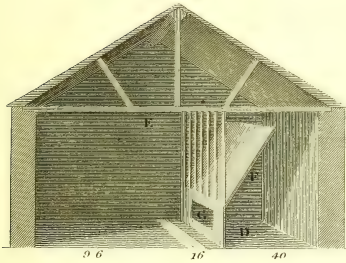
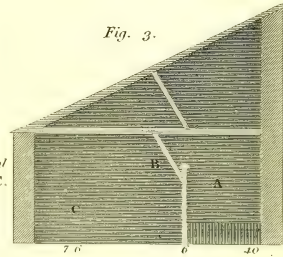


Fig. 3.



A The Handle made of Wood.
B Stock of Iron, Cutting part made Oval
and it has 1, 2, & 3, cutting pieces as C.

Fig. 5.

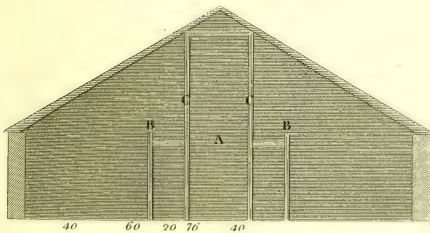
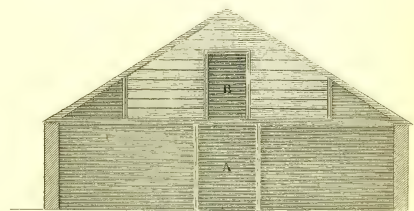
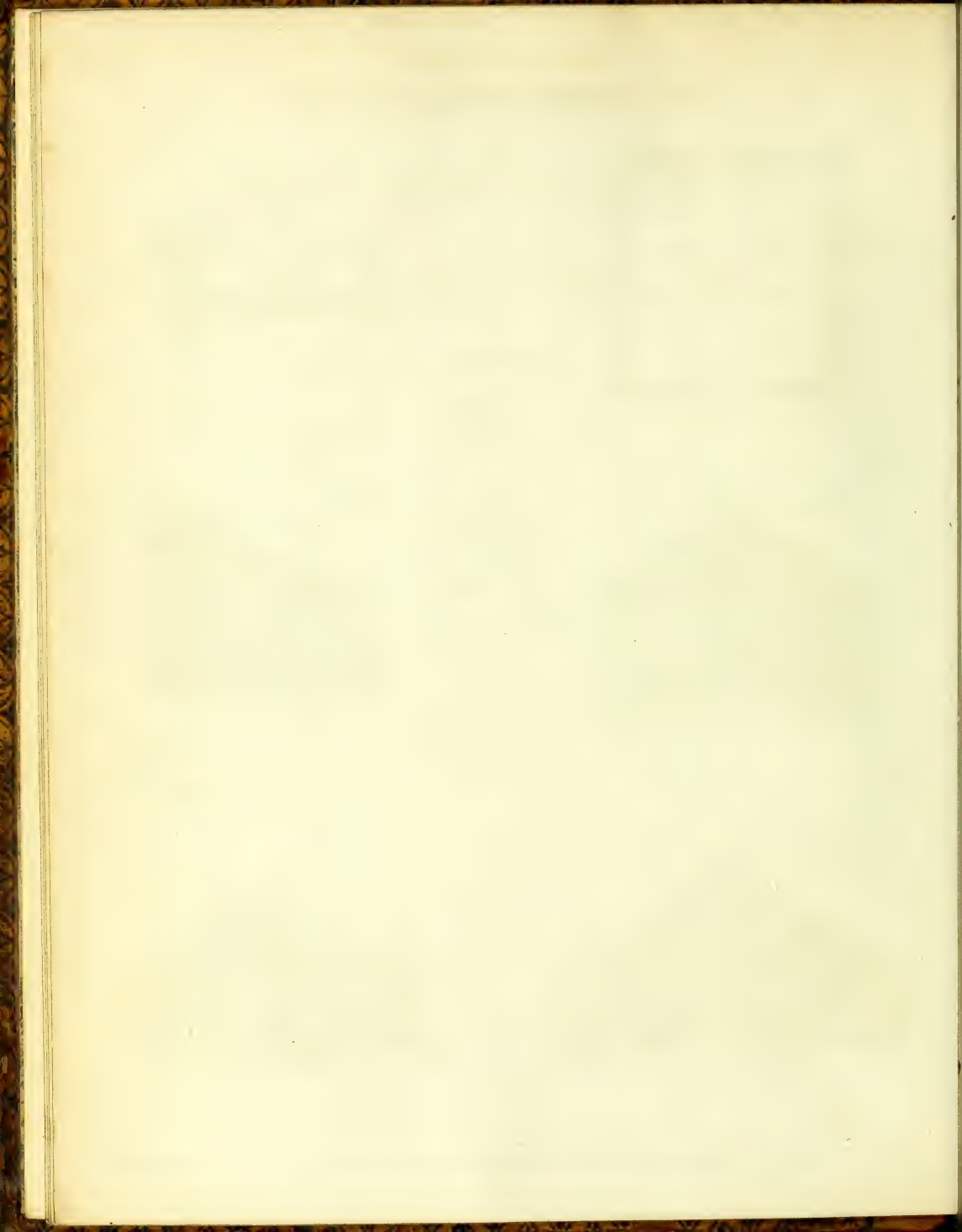
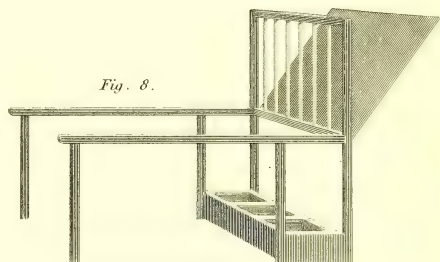
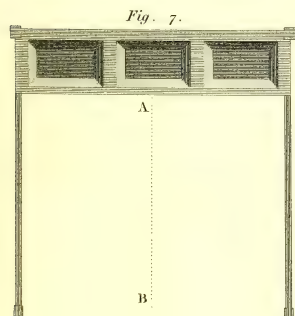
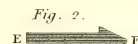
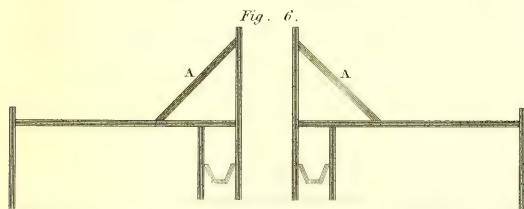
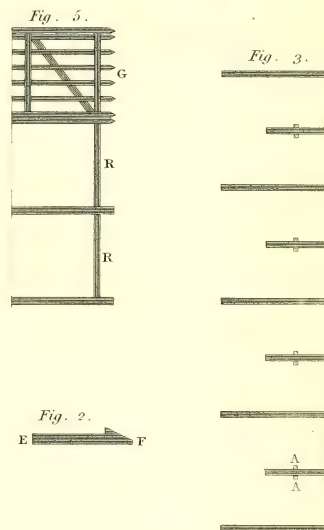
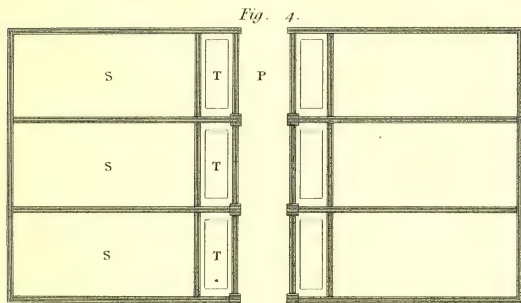
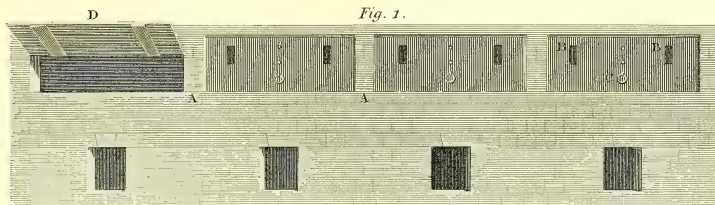


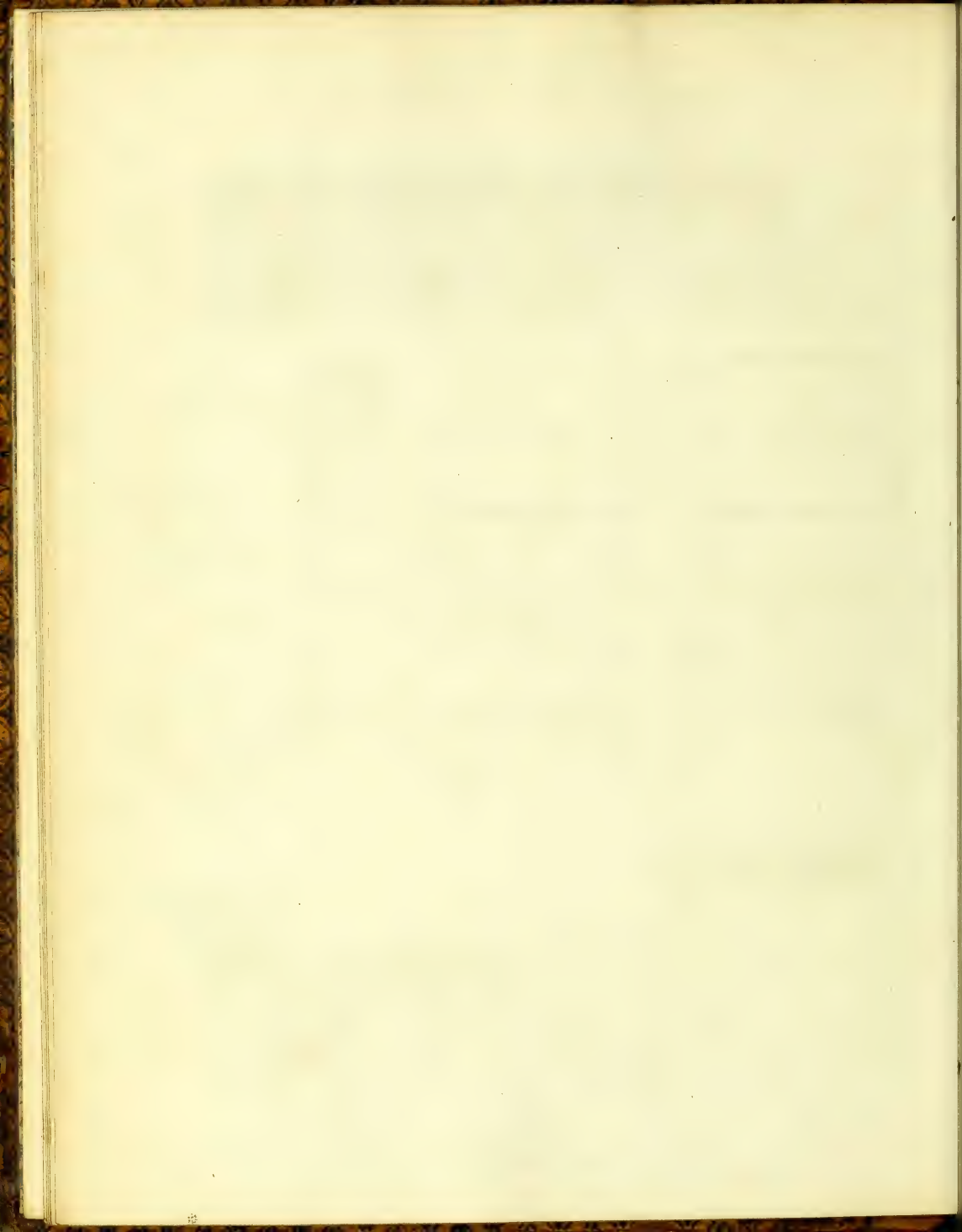
Fig. 6.





INTERNAL PARTS OF CATTLE SHEDS & FEEDING HOUSES.





FARM COTTAGES.

Fig. 1.

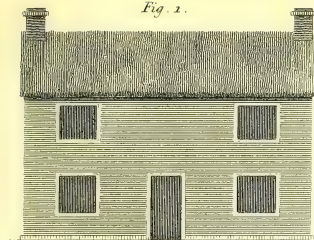


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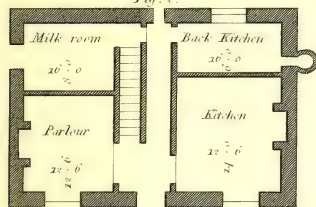


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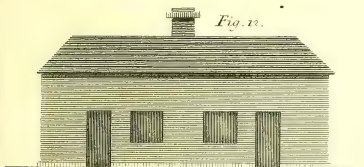


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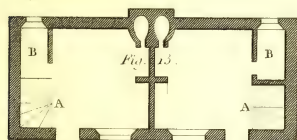


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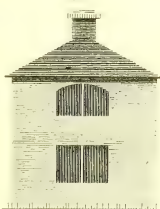


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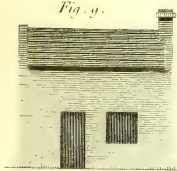


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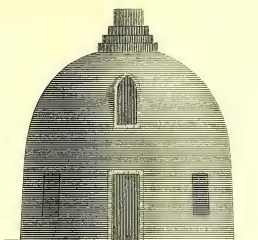


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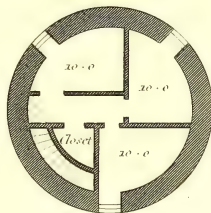


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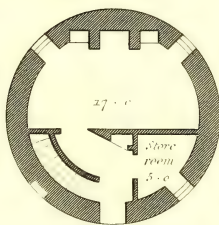


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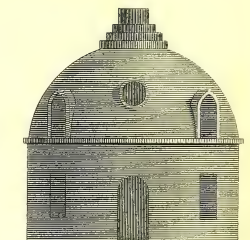


Fig. 7.

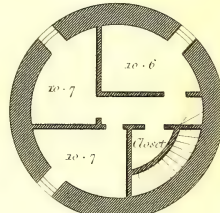
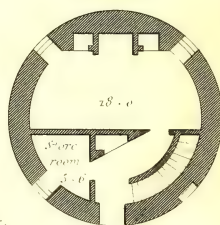


Fig. 8.



Scale of Feet.
0 5 10 15 20 25

Fig. 11.

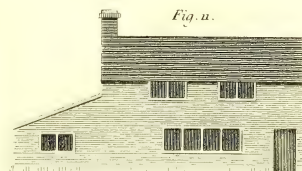


Fig. 14.





AGRICULTURE.
ORNAMENTAL COTTAGES.

PLATE VII.

Fig. 3.

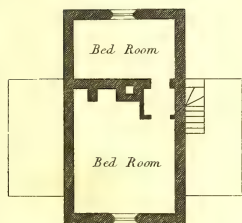


Fig. 1.



Fig. 2.

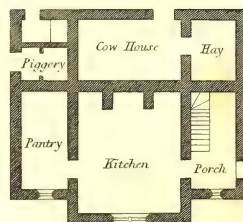


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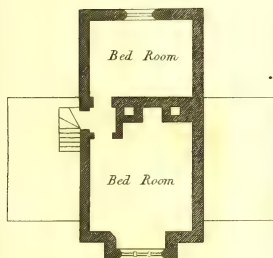


Fig. 4.



Fig. 5.

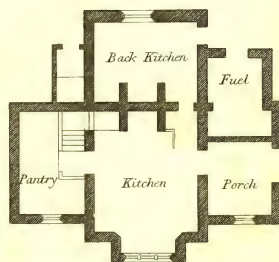


Fig. 7.



Fig. 8.

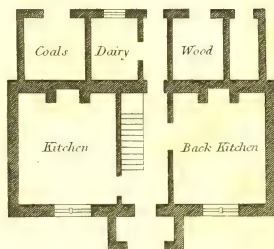
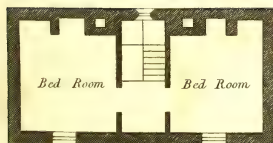
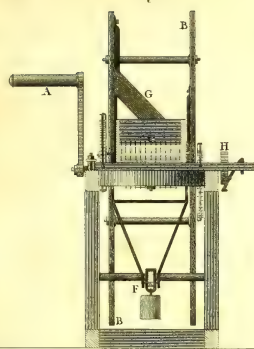


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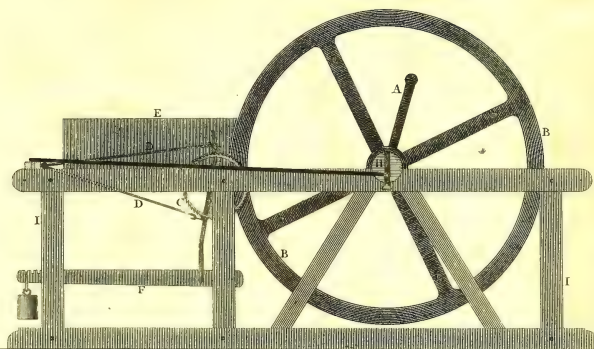
M^r Salmon's CHAFF CUTTER, as made by M^r Rowntree.

Fig. 2.



Elevation of the End.

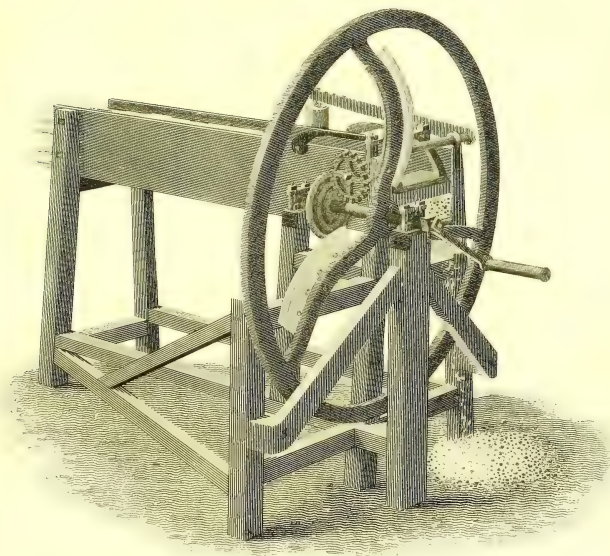
Fig. 1.



Elevation taken sideways.

Fig. 3.

M^r M^r Dougal's Chaff Cutter.



In viewing Fig. 3, the eye of the spectator should be placed at 12 Inc. distance from



CHEESE PRESS,
AND CHURNS.

Fig. 2.

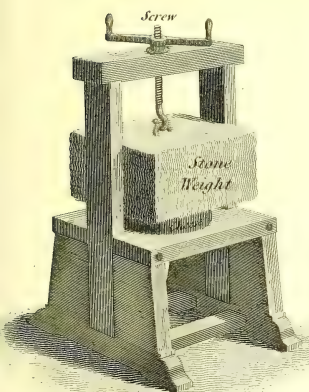


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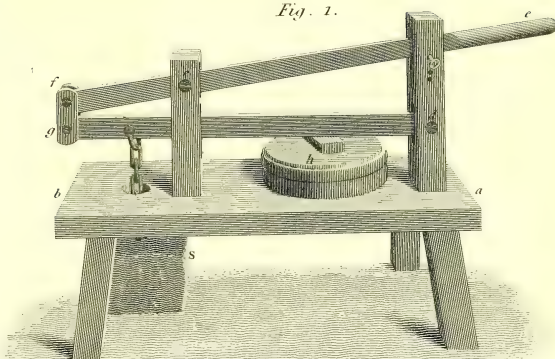
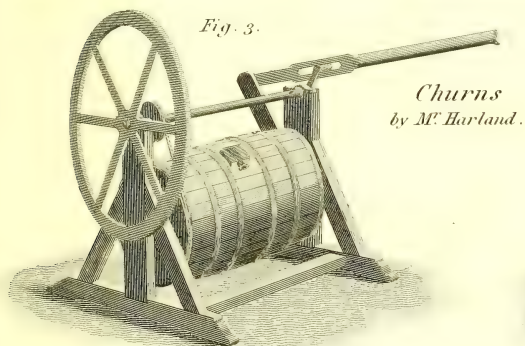
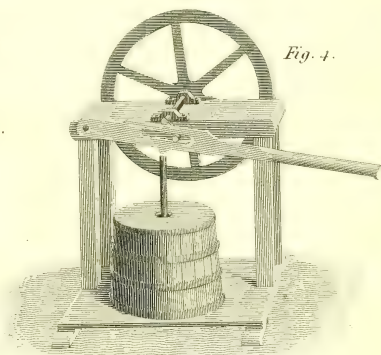


Fig. 3.



Churns
by M. Harland.

Fig. 4.



by M. Rowntree.

Fig. 7.

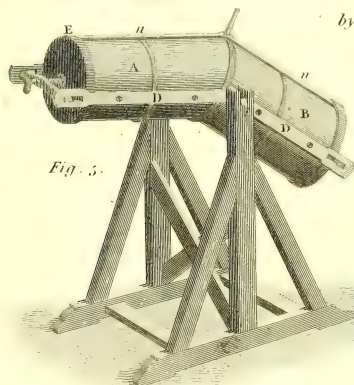


Fig. 5.

Fig. 6.

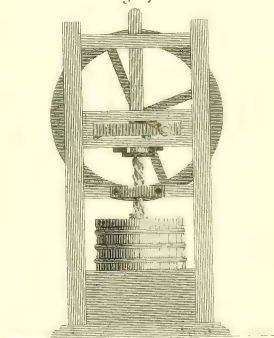


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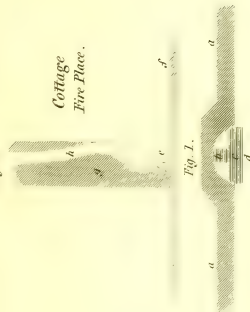


Fig. 3.



Fig. 4.

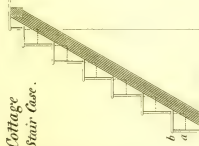


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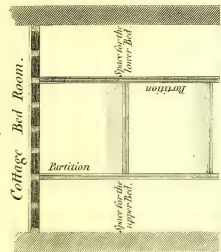


Fig. 1.



MR. AMOS'S Couch Grass Rake.

Section through the line u-z, Fig. 10.

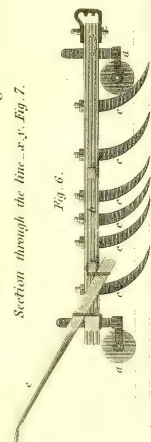


Fig. 6.

Section through the line x-y, Fig. 7.

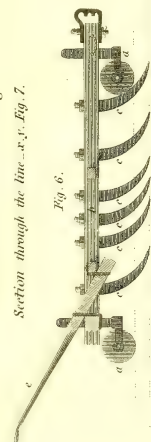


Fig. 9.

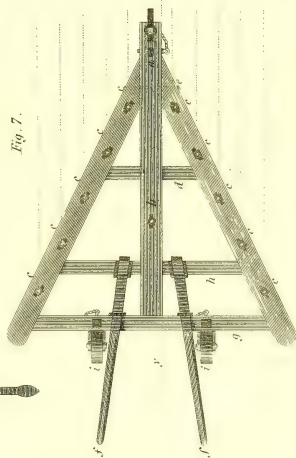


Fig. 8.



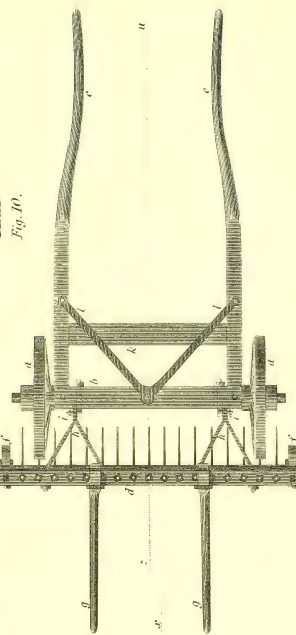
PLAN

Fig. 7.



PLAN

Fig. 10.



Scale of Feet.



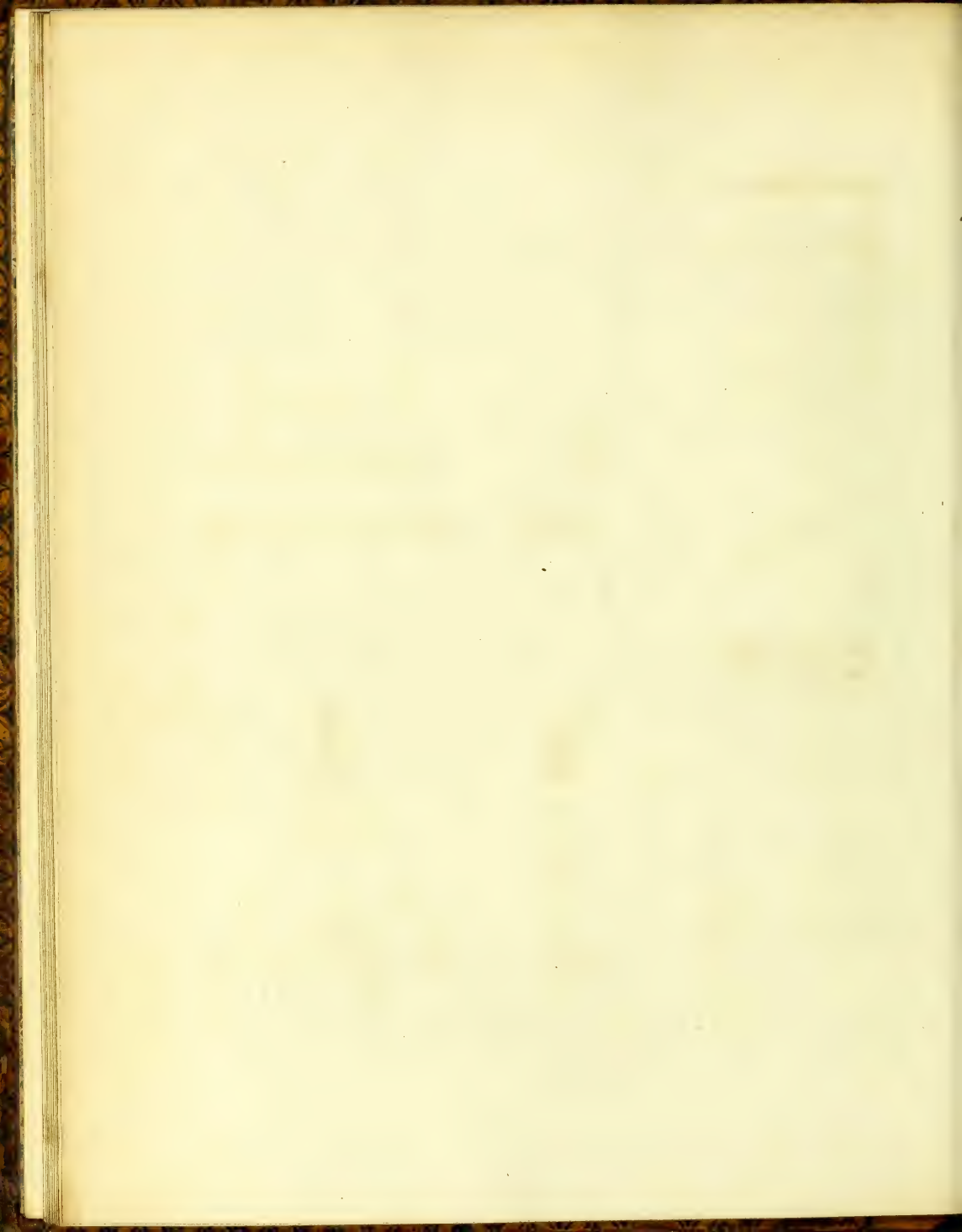


Fig. 2.
Plan.

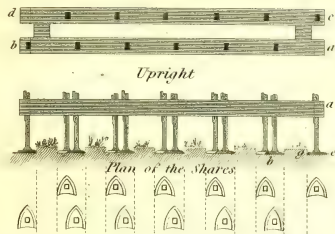


Fig. 1.

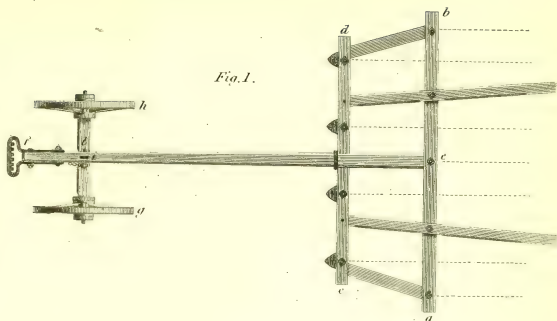


Fig. 4.

M^r C. Western's Double Cultivator.

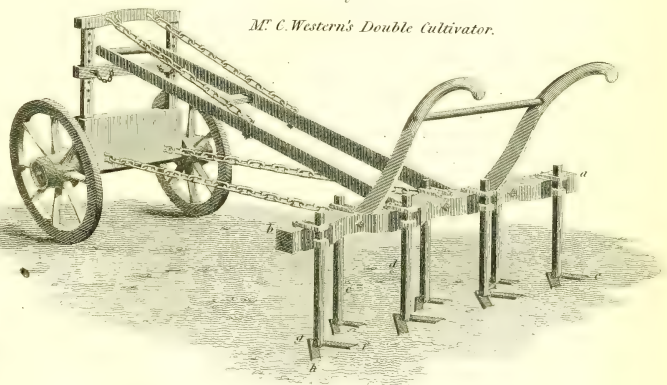


Fig. 3.

M^r Rogers's Bean Cultivator.

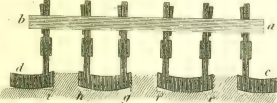
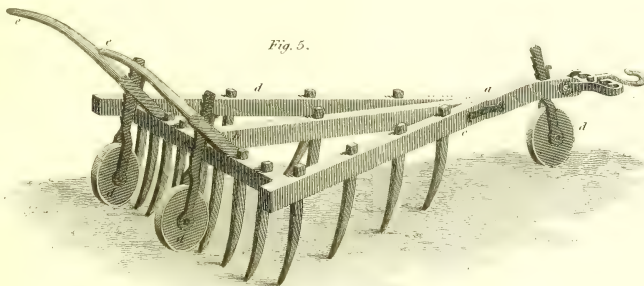


Fig. 5.



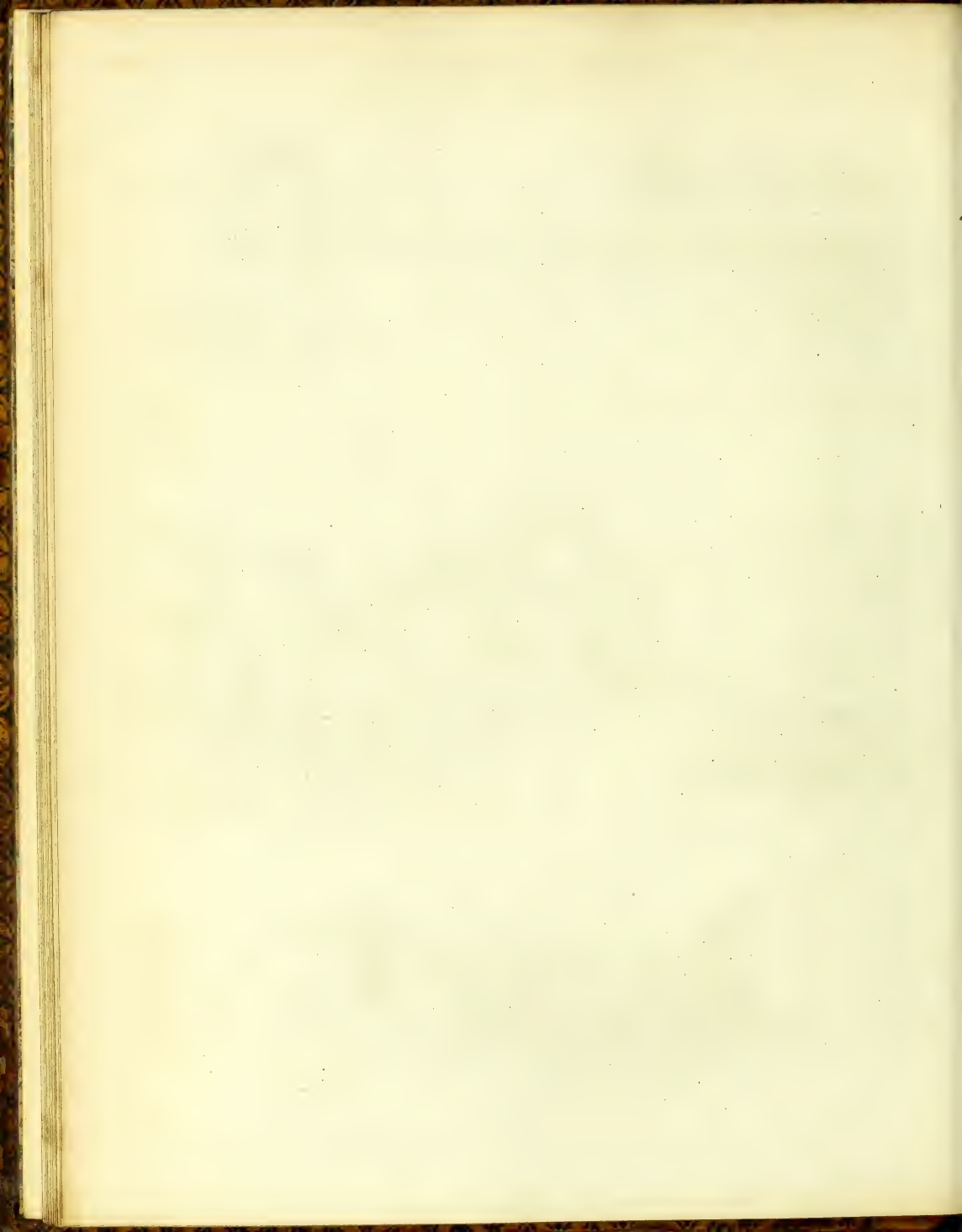


Fig 1.

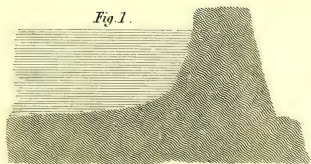


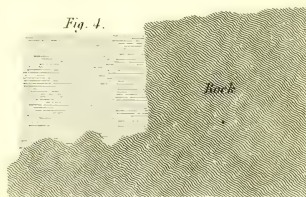
Fig 2.



Fig. 3.



Fig. 4.



r

Fig. 5.



Fig 7.



Fig. 6.

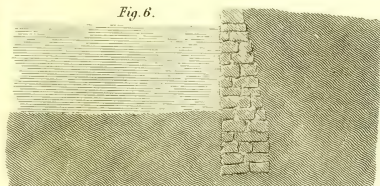


Fig. 8.

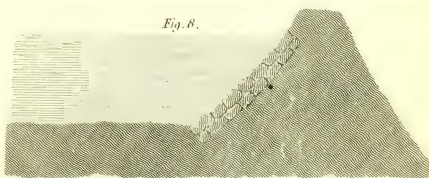
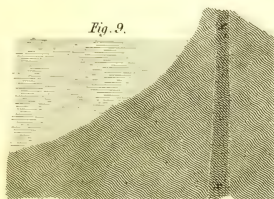


Fig. 9.



Clayey Substratum.

Fig. 10.

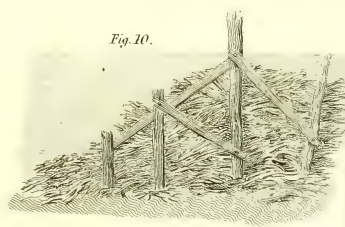
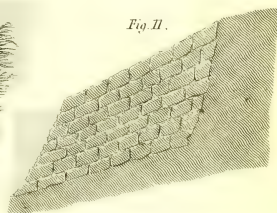


Fig. 11.





EMBANKMENTS.

Fig. 1.

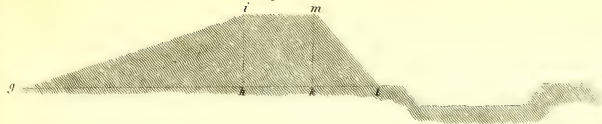


Fig. 5.

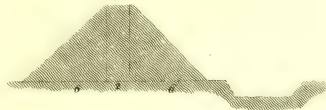


Fig. 2.

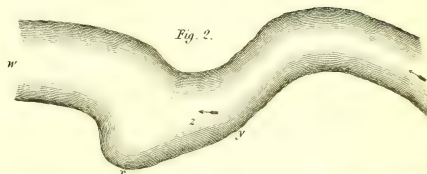


Fig. 6.

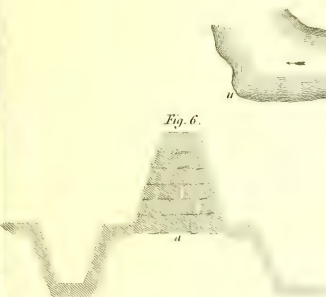


Fig. 3.

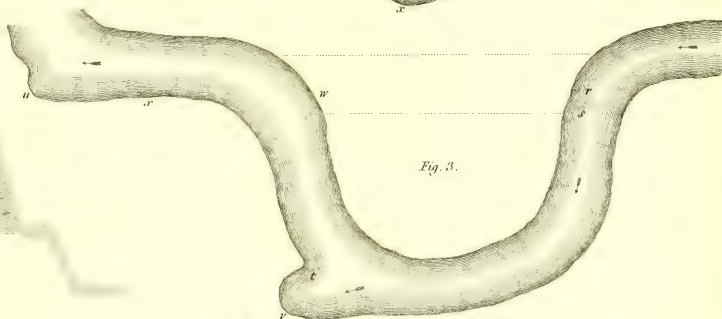


Fig. 8.



Fig. 7.



Fig. 4.

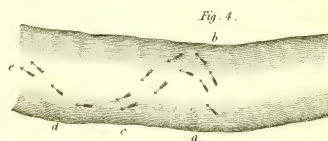


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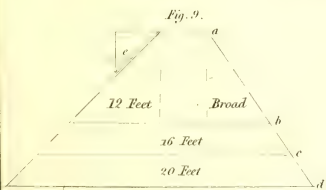


Fig. 11.

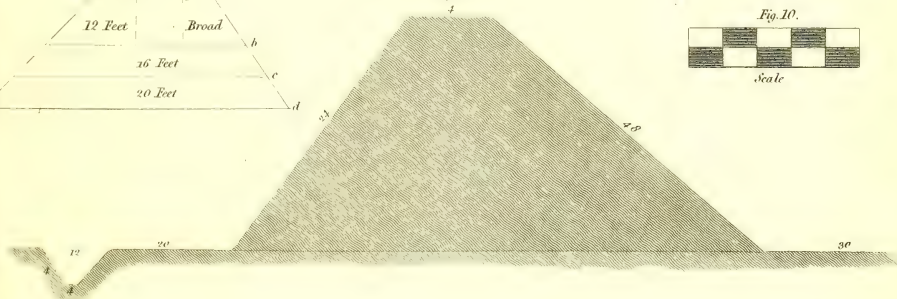
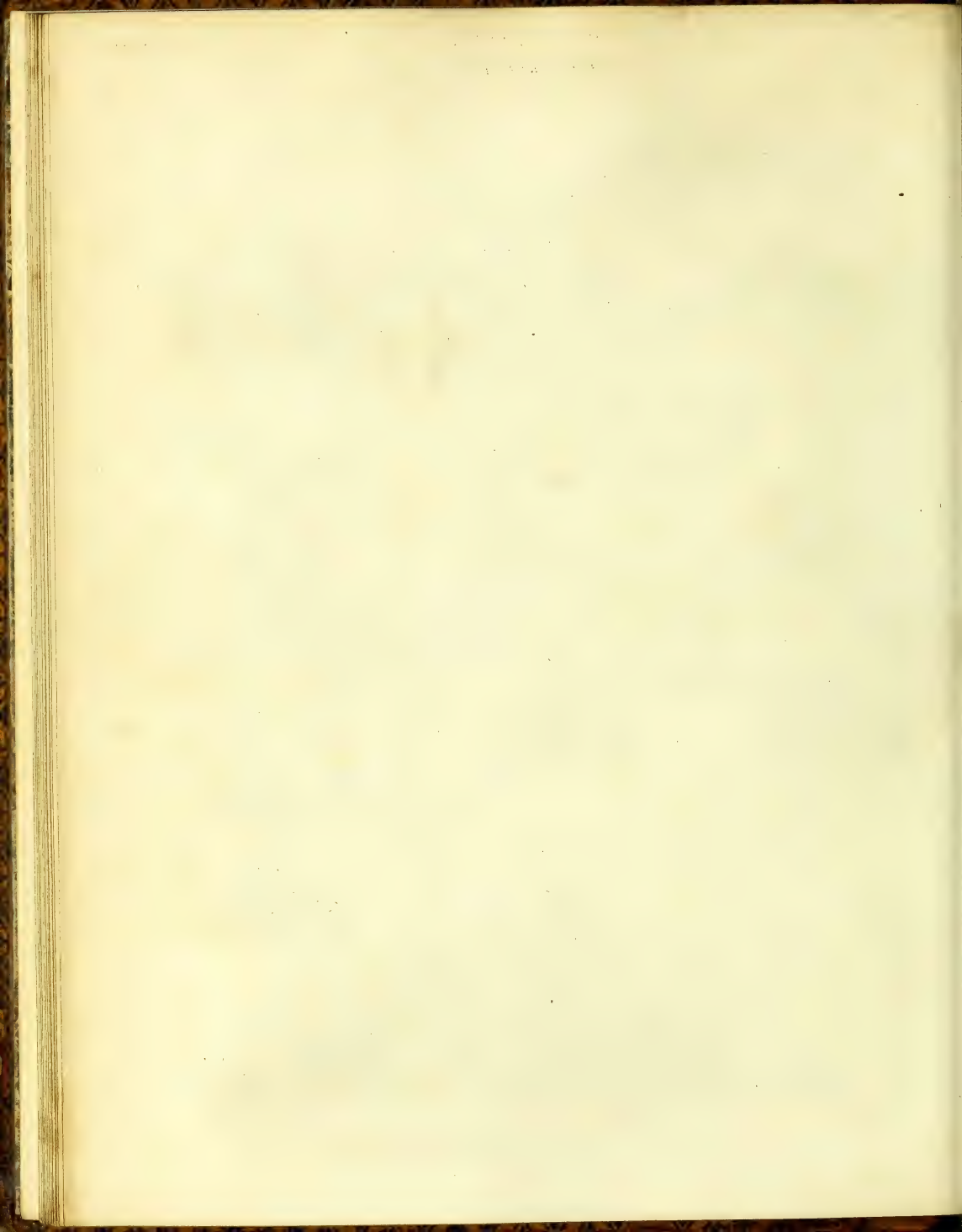
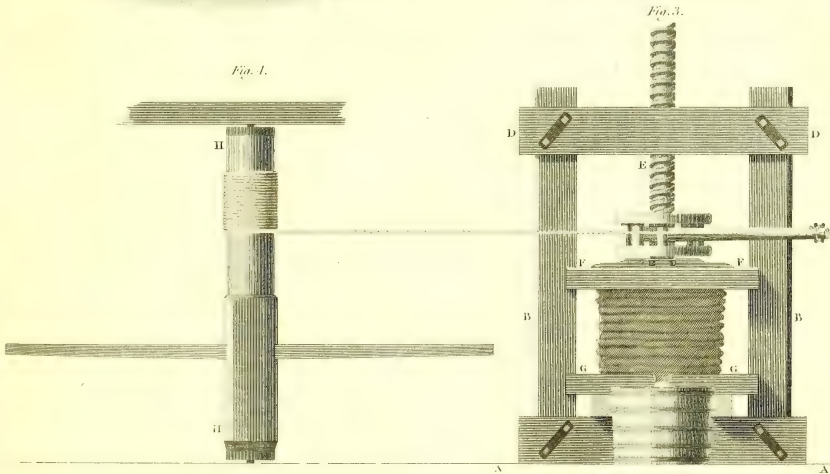
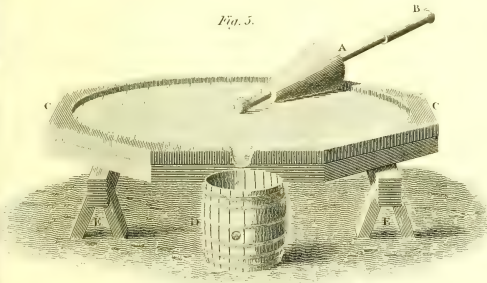
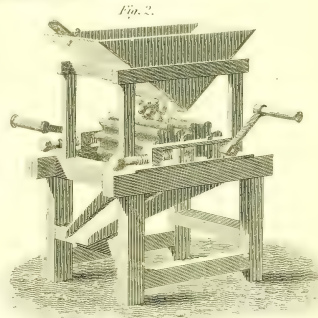
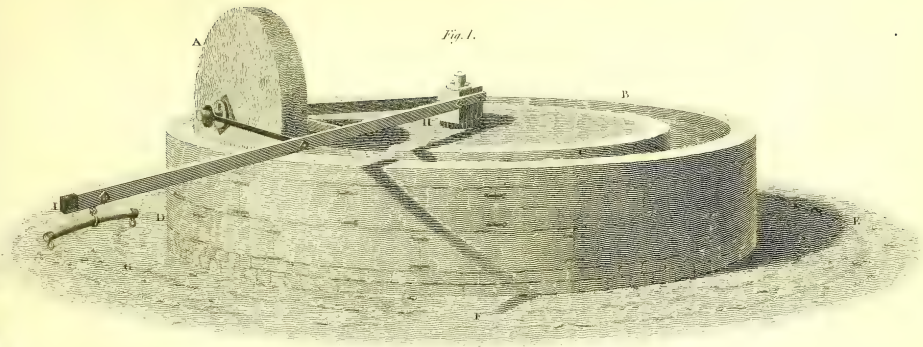


Fig. 10.





CYDER MILL and PRESS.



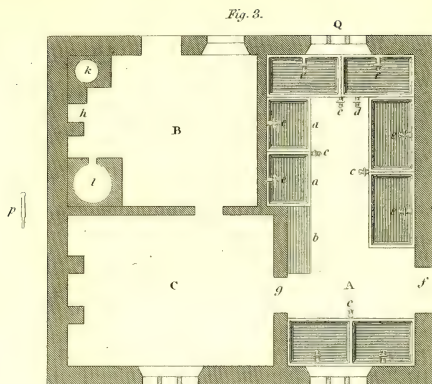
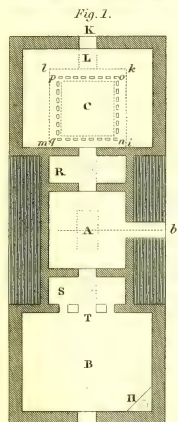
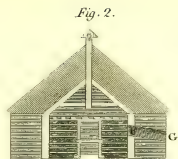
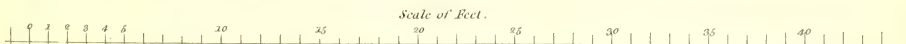
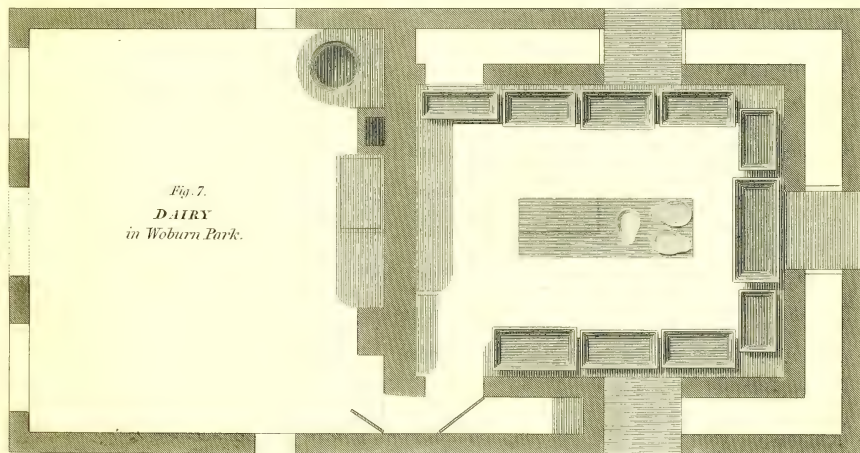
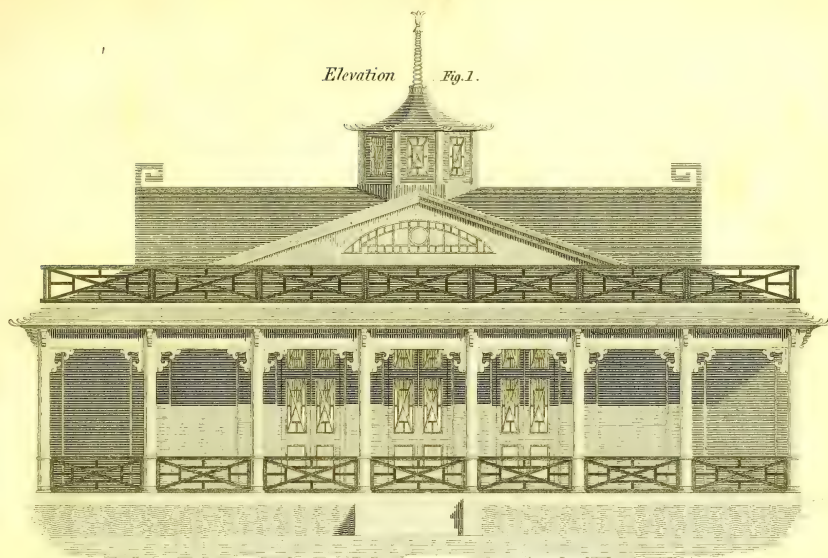


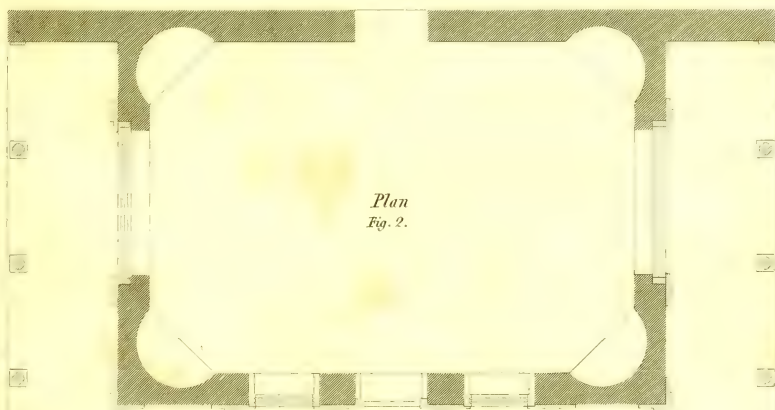
Fig. 6.



Elevation *Fig. 1.*



Plan
Fig. 2.



Scale of Feet.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

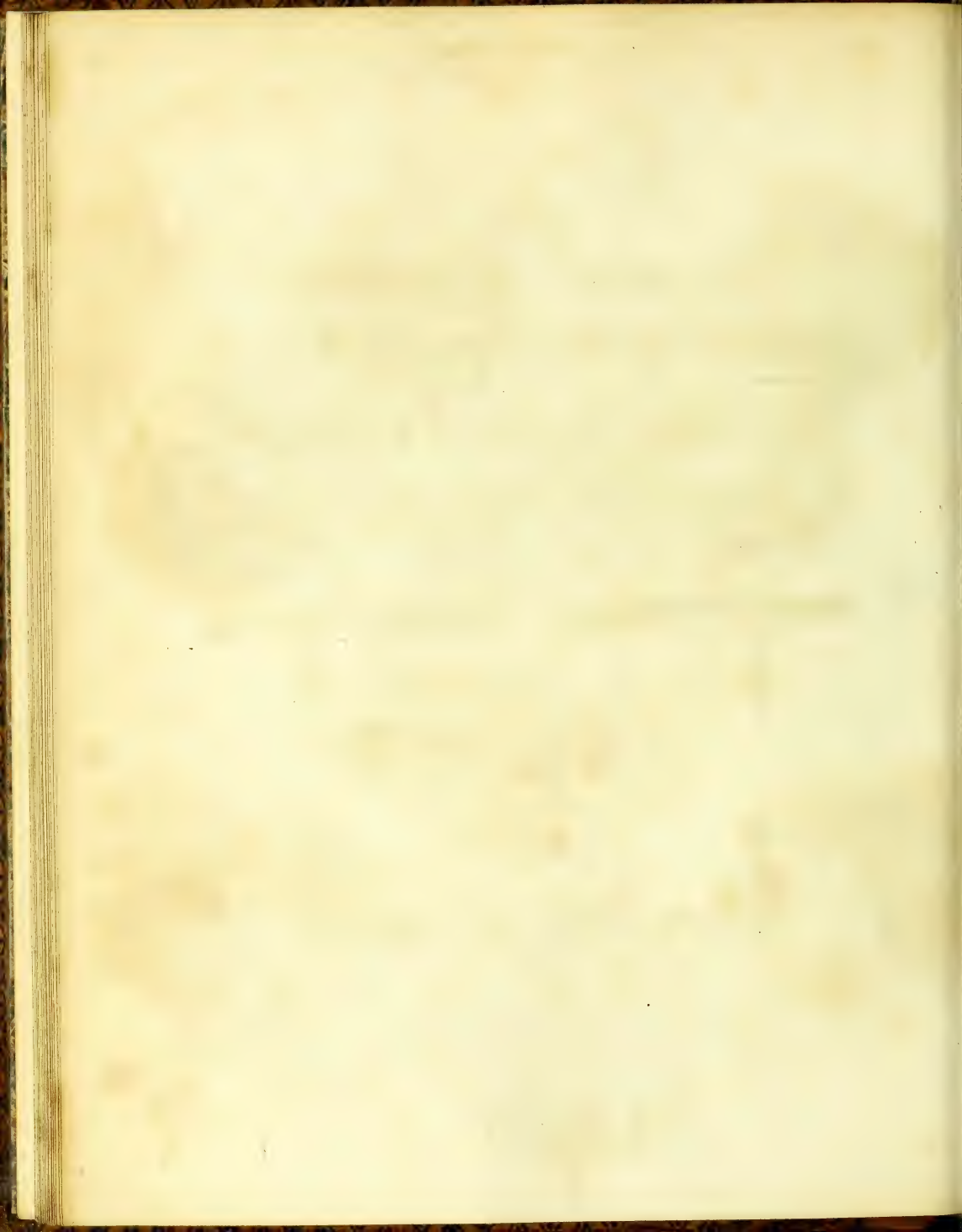


Fig. 1

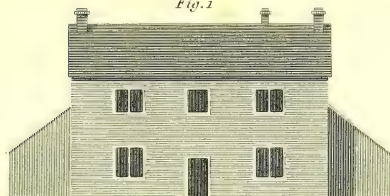


Fig. 2

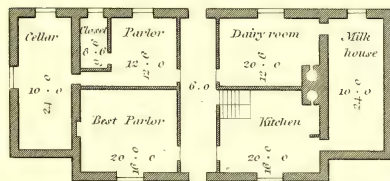


Fig. 3

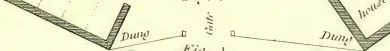


Fig. 4



Fig. 5

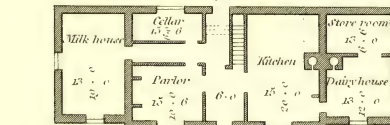


Fig. 6



CORN AND MIXED FARM BUILDINGS.

Fig. 1.

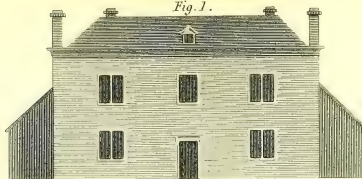


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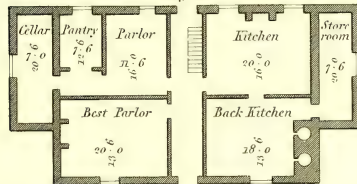


Fig. 3.

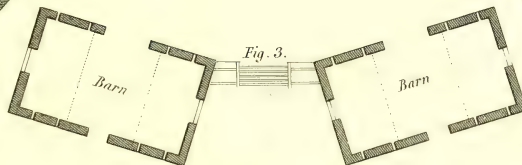


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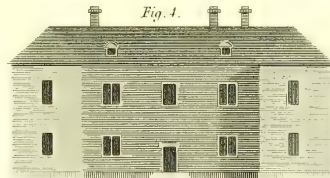


Fig. 5.

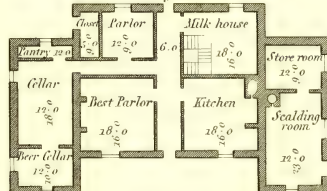
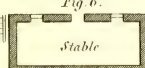
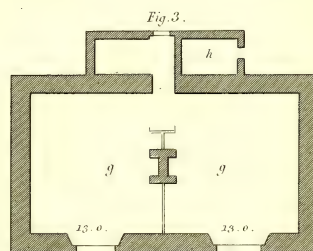
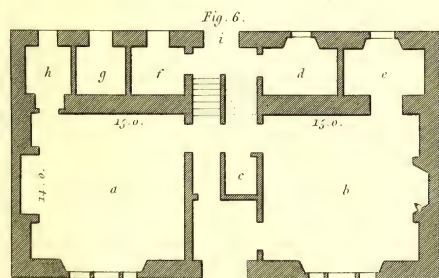
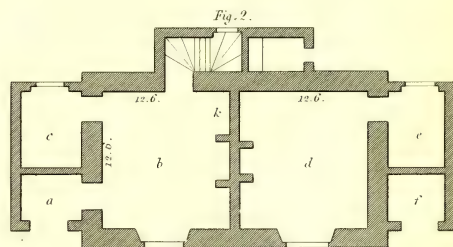
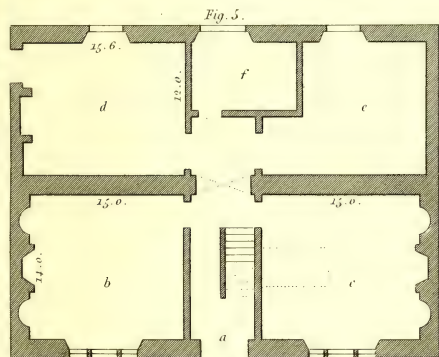
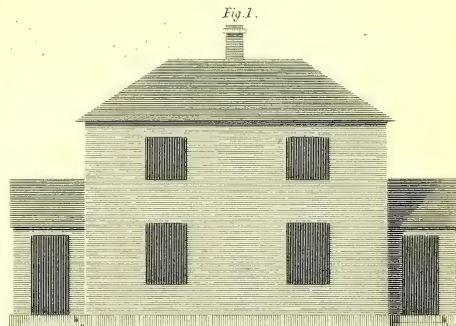
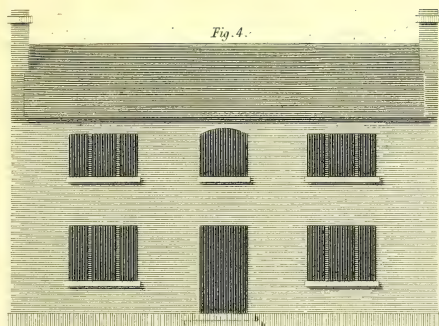


Fig. 6.









AGRICULTURE.

PLANS OF ANGULAR AND CIRCULAR FARM YARDS.

PLATE XVII.

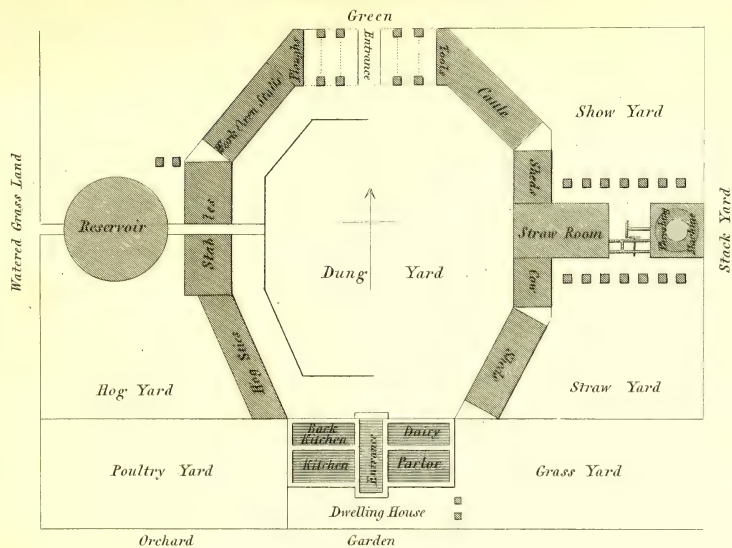
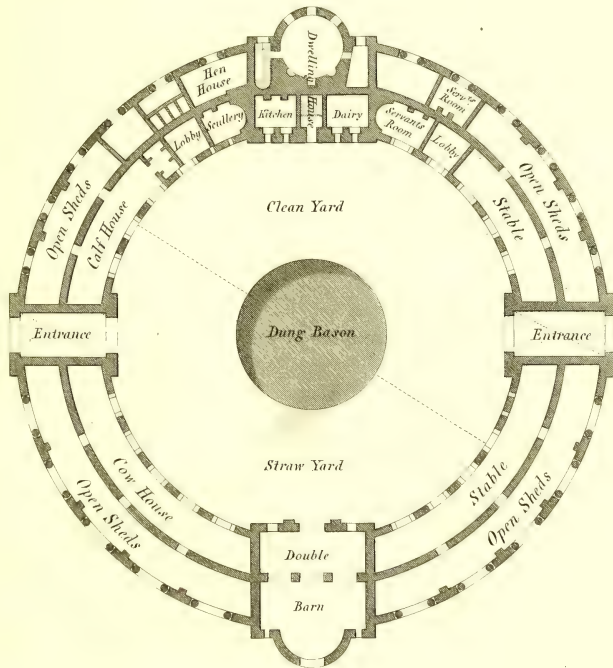
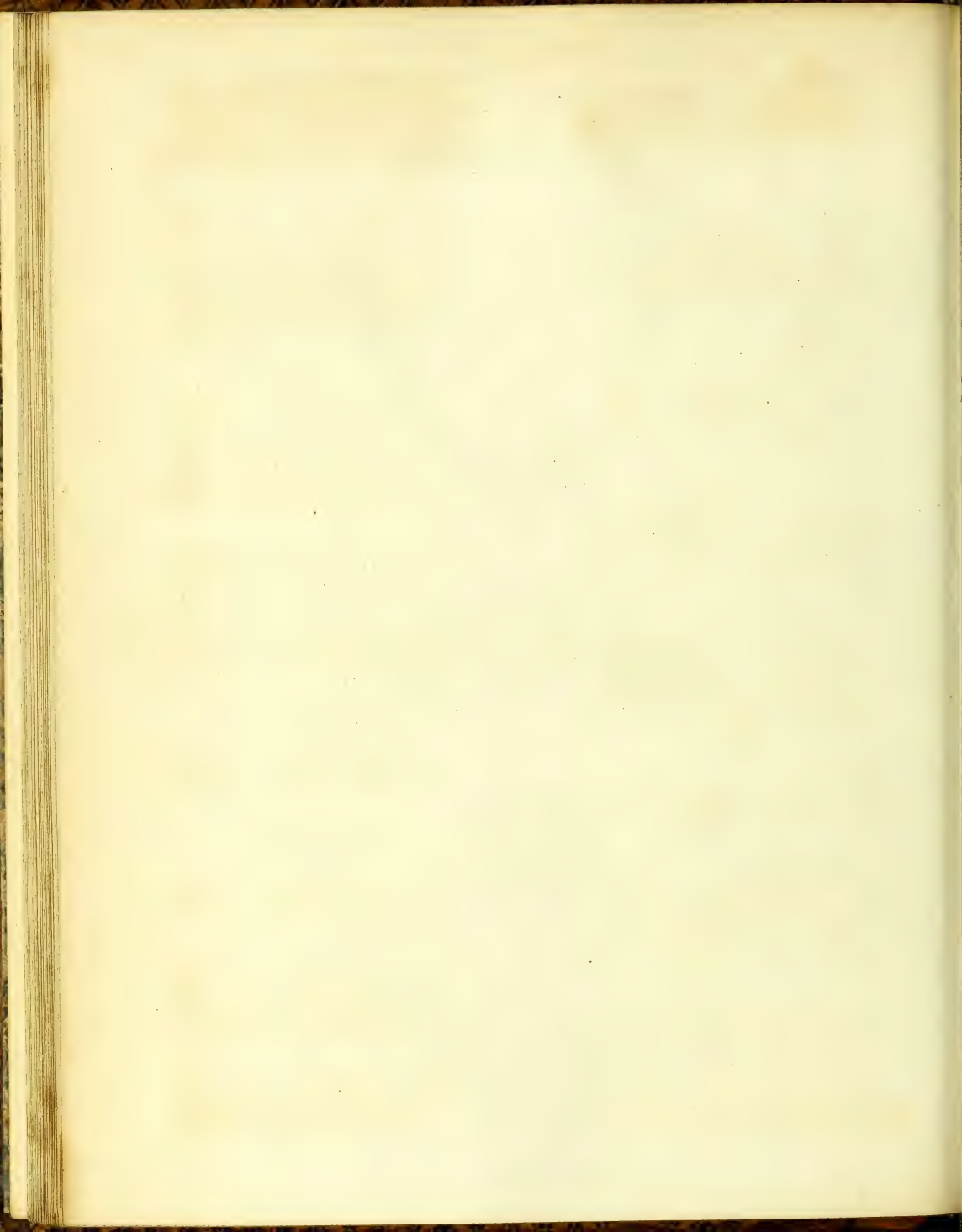


Fig. 2.





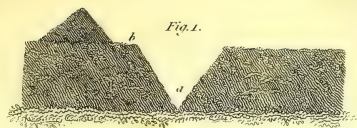


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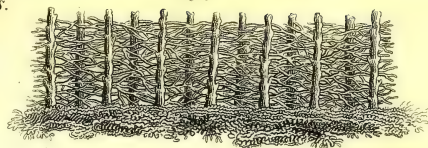


Fig. 10.



Fig. 2.

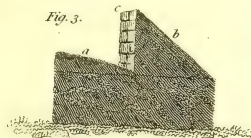


Fig. 3.



Fig. 11.

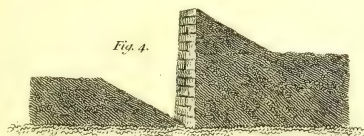


Fig. 4.



Fig. 12.

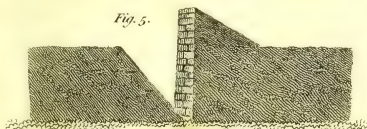


Fig. 5.



Fig. 6.



Fig. 13.

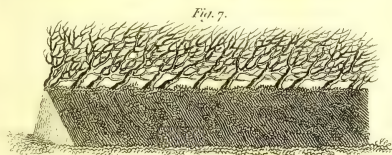


Fig. 7.



Fig. 14.

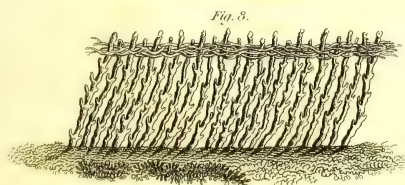


Fig. 8.



Fig. 15.



Fig. 16.

Fig. 1.

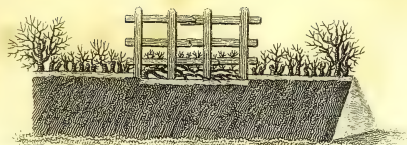


Fig. 2.

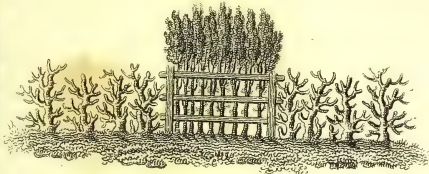


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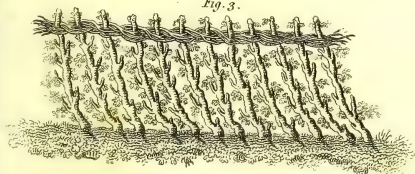


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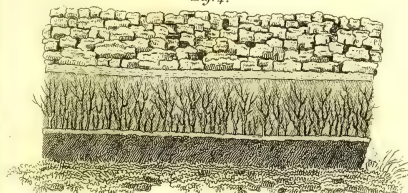


Fig. 5.



Fig. 6.



Fig. 7.

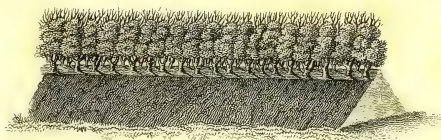


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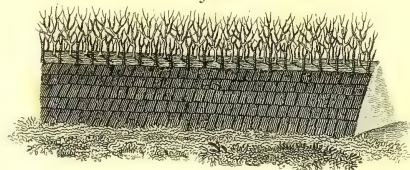


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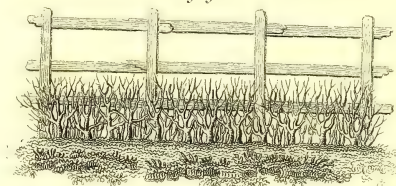


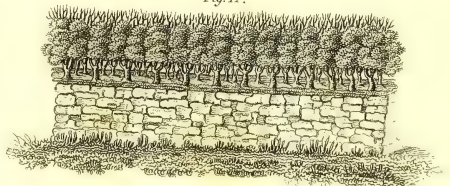
Fig. 10.



Fig. 11.



Fig. 12.





FENCES.

Fig. 1.

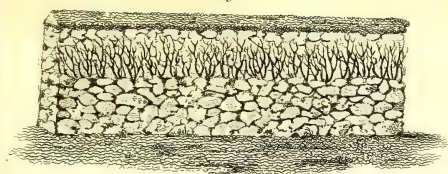


Fig. 7.



Fig. 2.

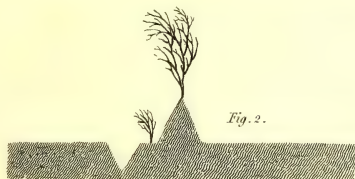


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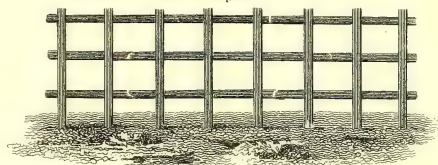


Fig. 3.



Fig. 9.

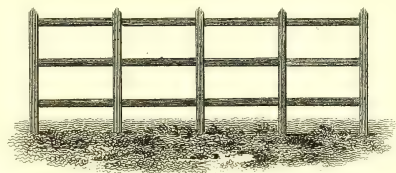


Fig. 4.



Fig. 10.

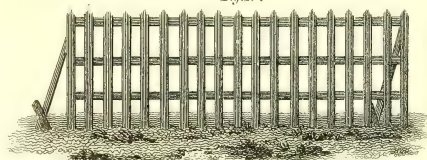


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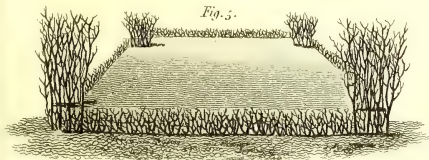


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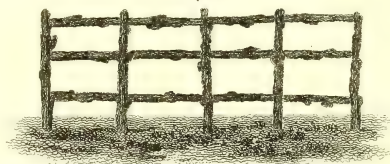
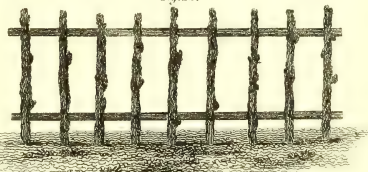
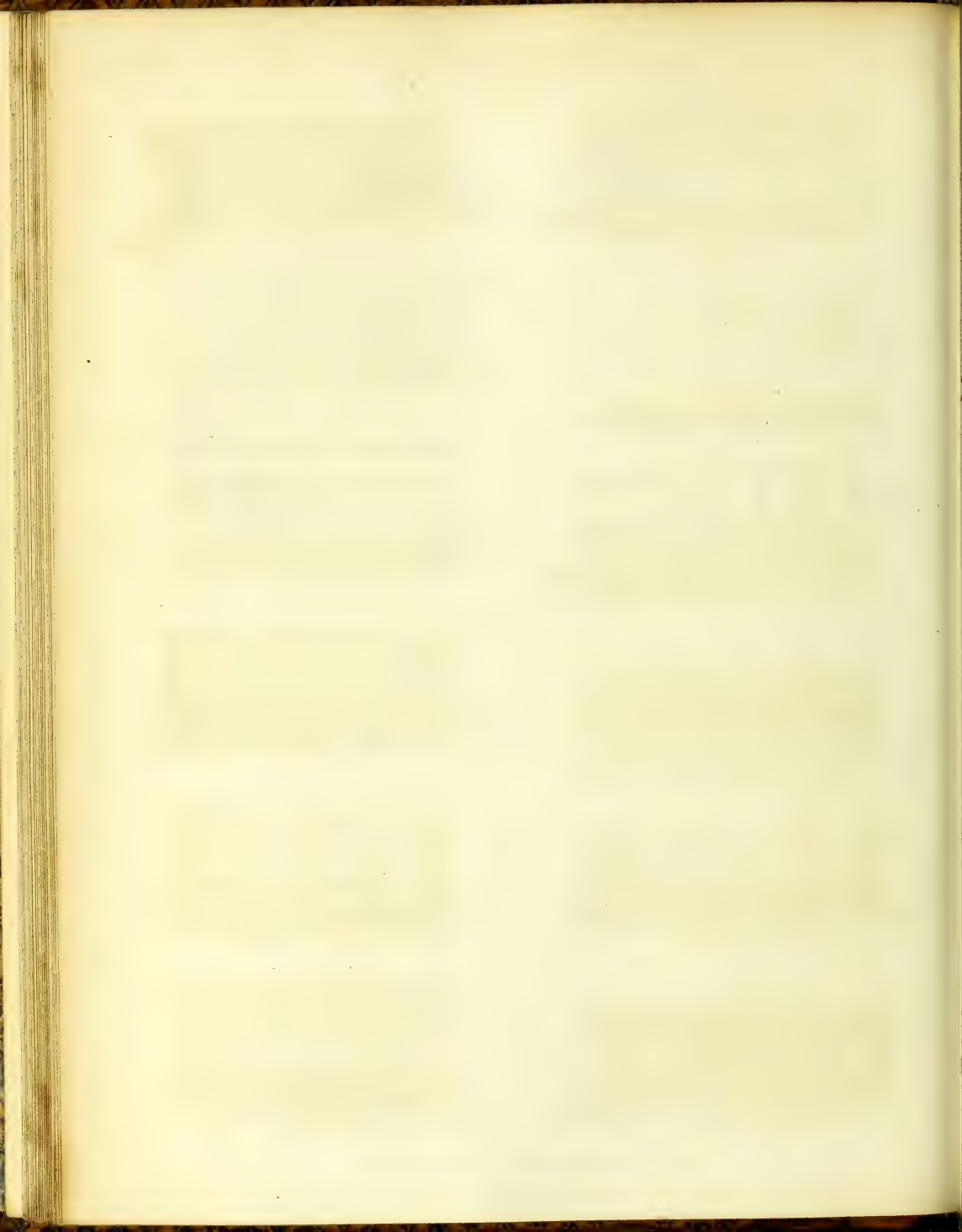


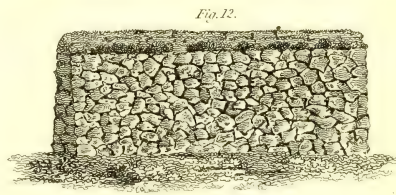
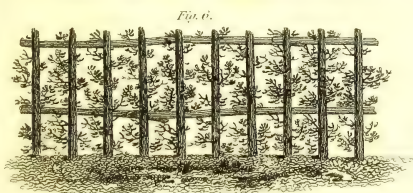
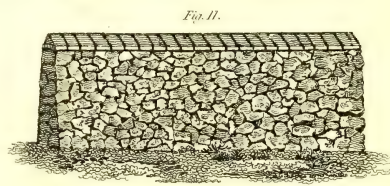
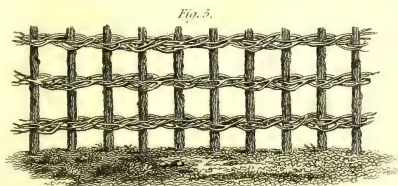
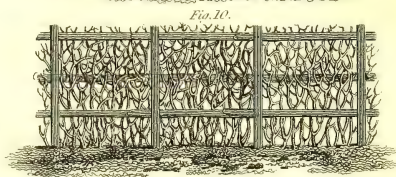
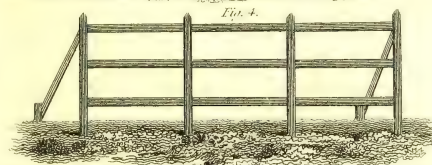
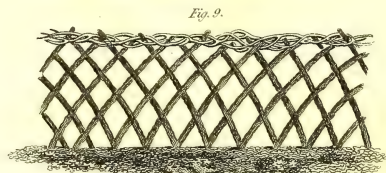
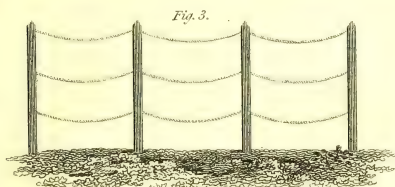
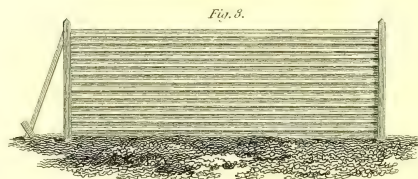
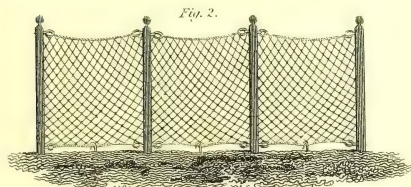
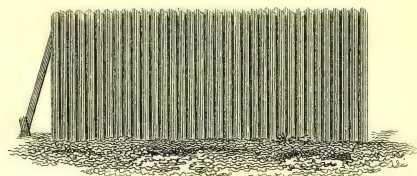
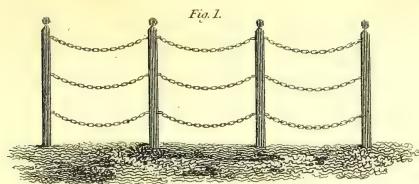
Fig. 6.



Fig. 12.







FENCES.

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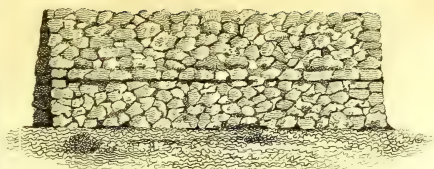


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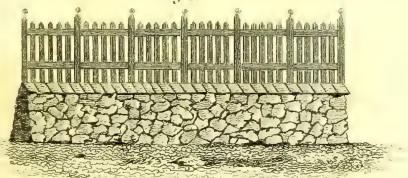


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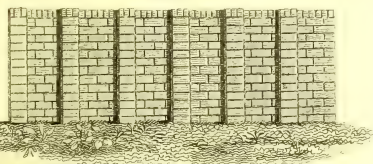


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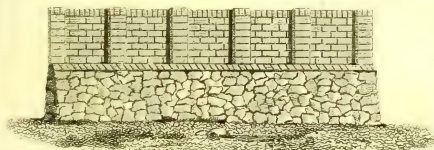


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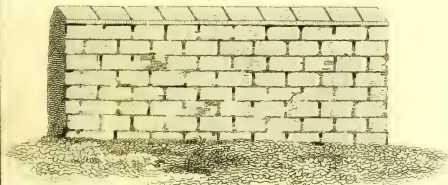


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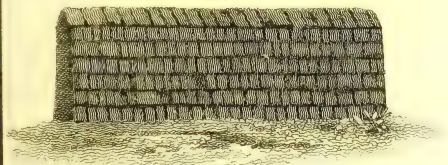


Fig. 7.

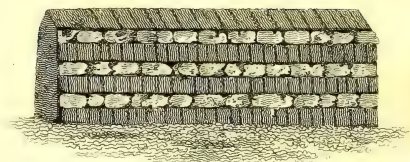


Fig. 8.

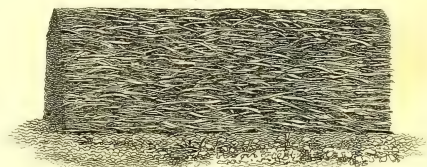


Fig. 9.



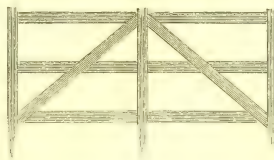
Fig. 10.

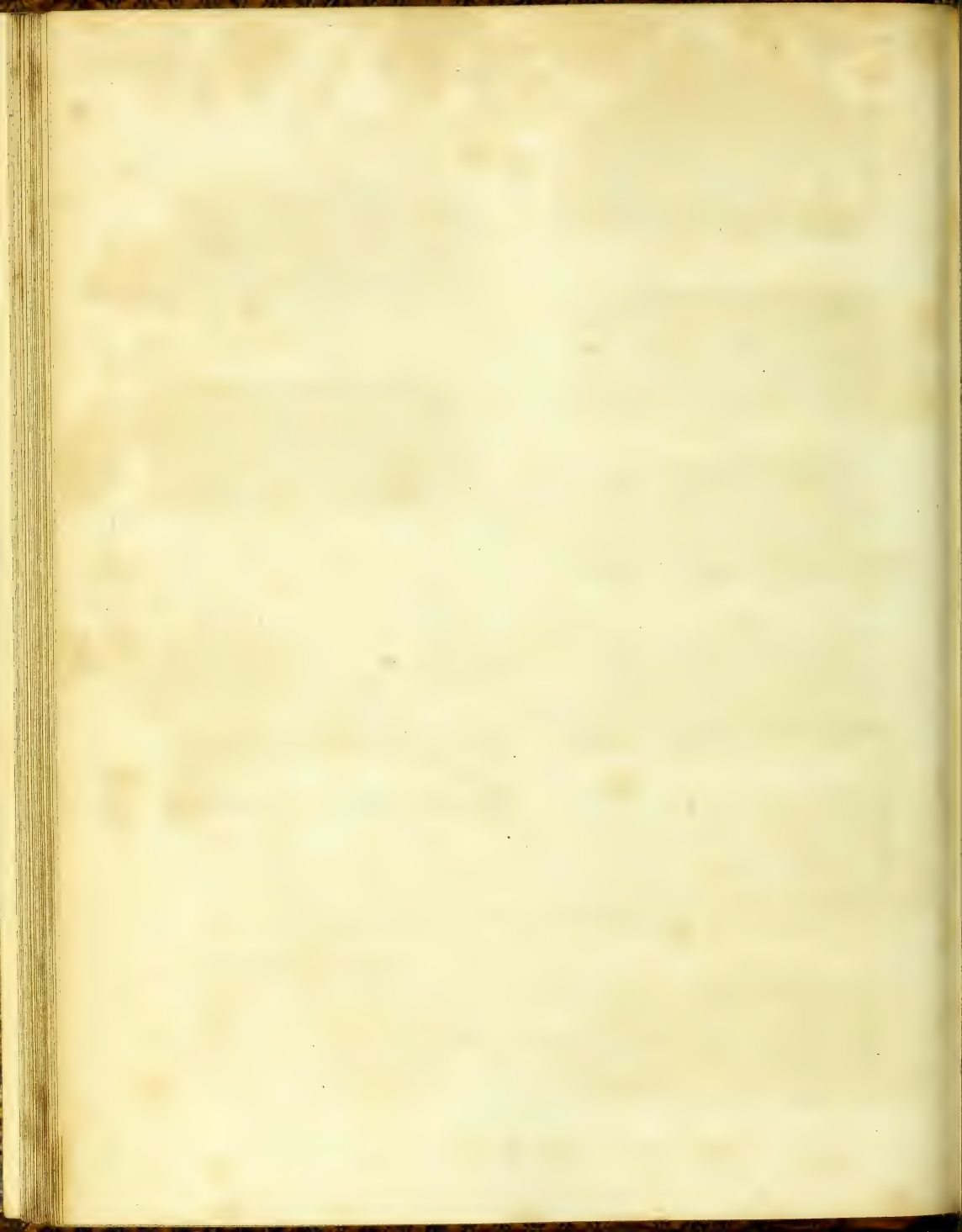


Fig. 11.



Fig. 12.





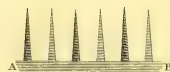
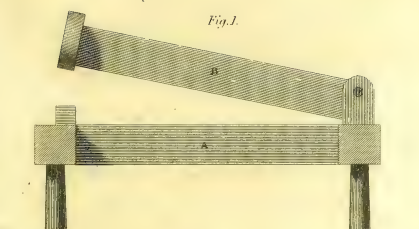


Fig. 8.



Fig. 4.

Fig. 6.

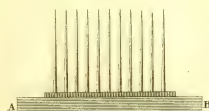
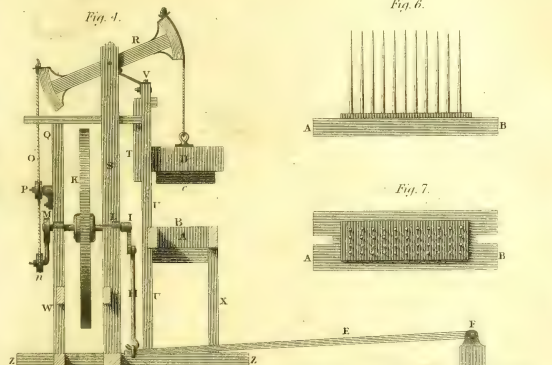
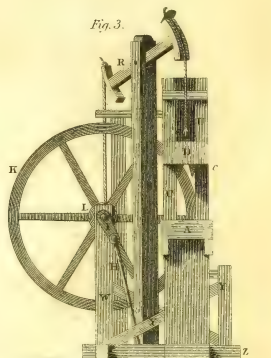


Fig. 7.

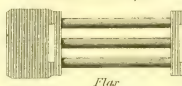
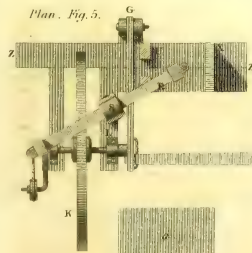


Fig. 3.



Plan. Fig. 5.

Plan of A in Fig. 4.



Flax

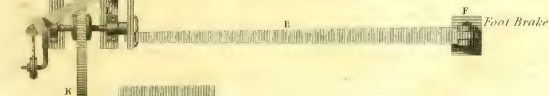


Fig. 11.



Fig. 10.



Fig. 9.



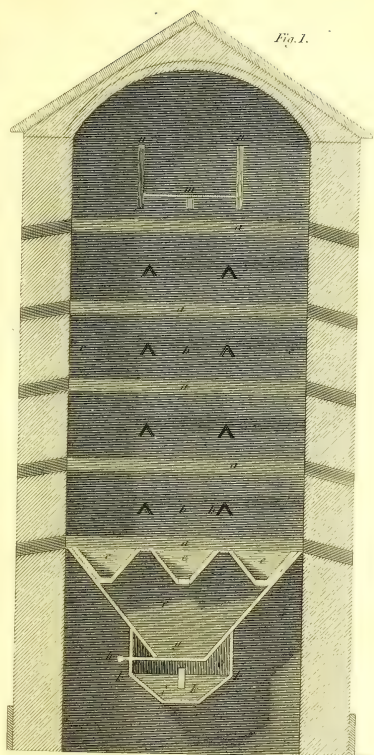


Fig. 1.

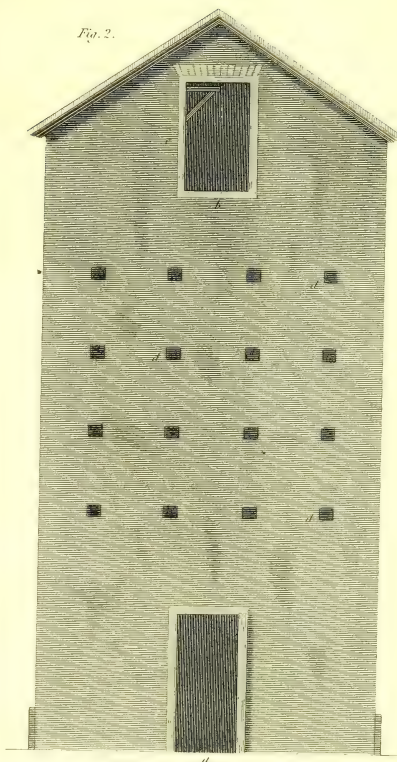


Fig. 2.

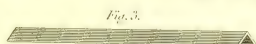
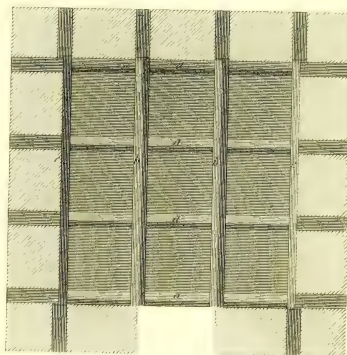
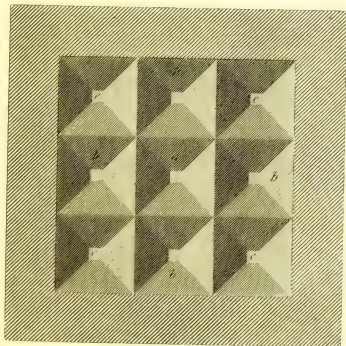


Fig. 3.

Fig. 3.

Fig. 3. Plan.



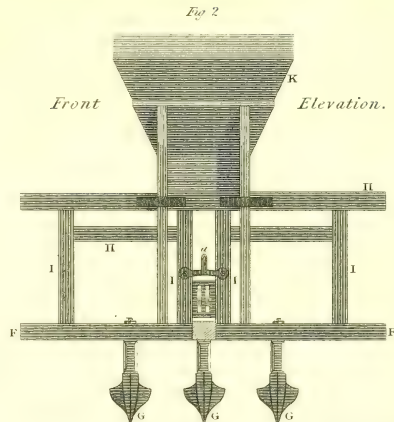
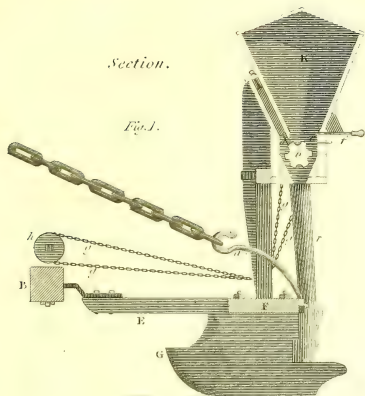
For Fig. 3, referred to in the Article GRAZING,
See Plate GRAZING and HARROWS.

AGRICULTURE.

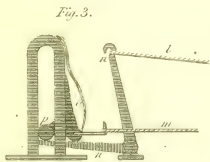
Salmon's Drill MACHINE.

PLATE XXV.
(MACHINE S.)

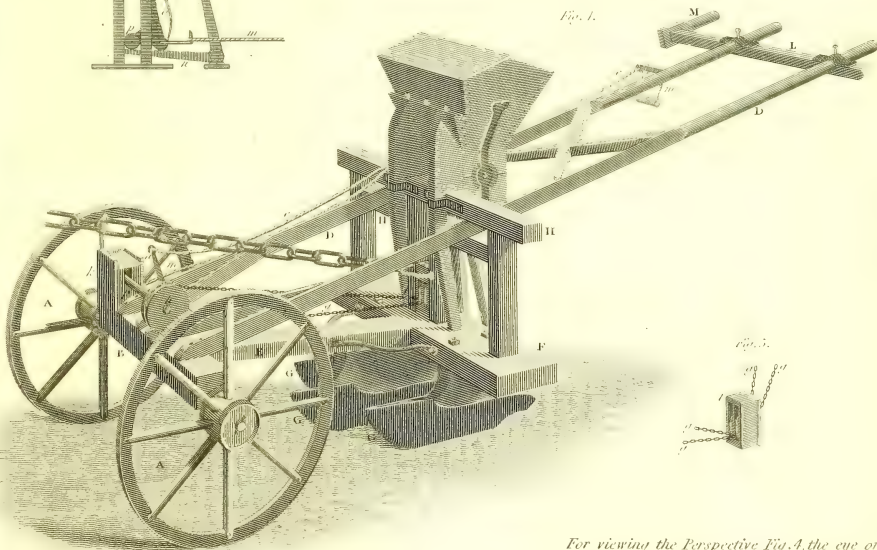
V



-W-

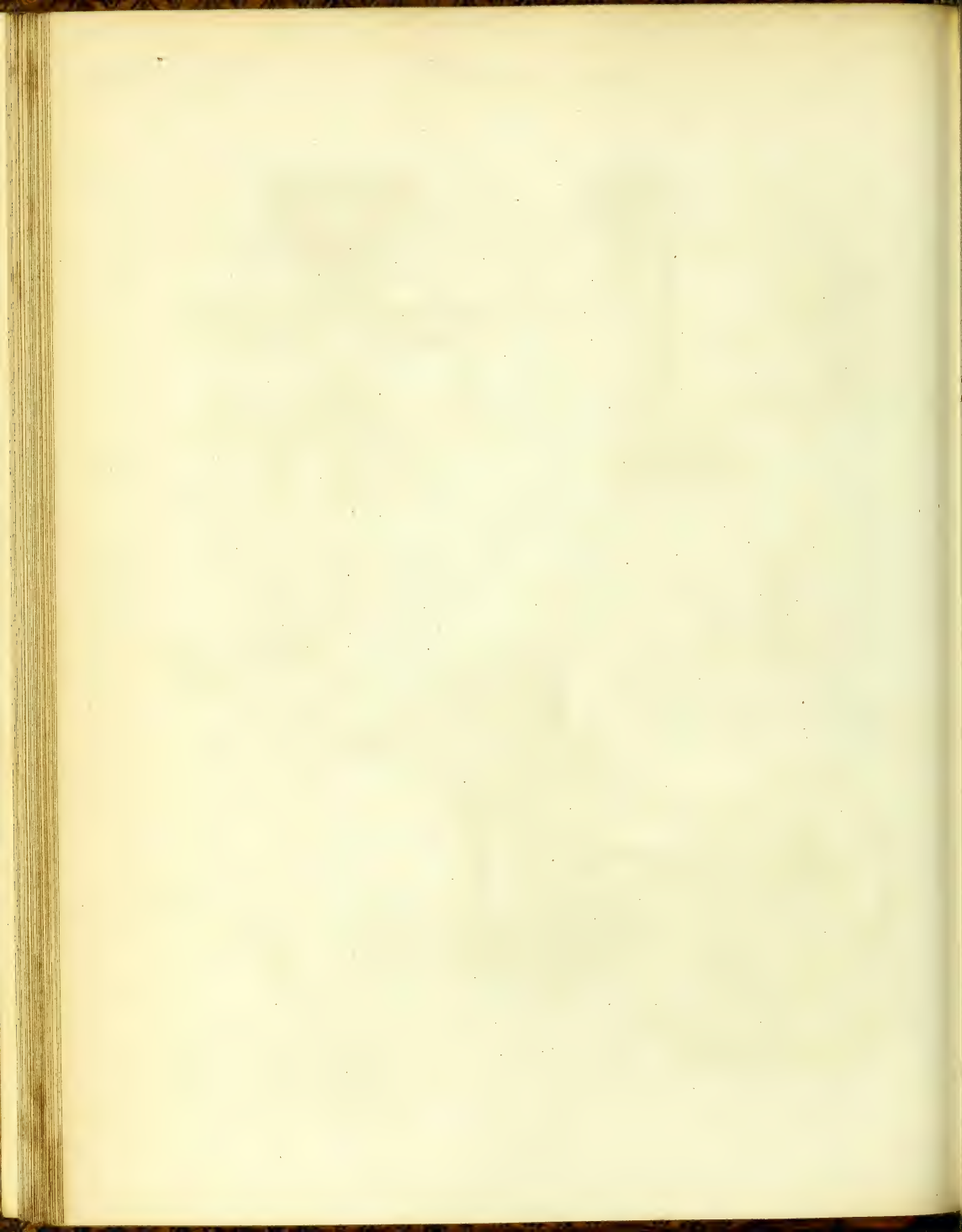


Perspective View of the Machine.



For viewing the Perspective Fig. 4, the eye of the observer should be placed at 12 inches perpendicular distance from the intersections of the line V.W.

W



M^r Charles Machine for Levelling Land.

Fig. 1.

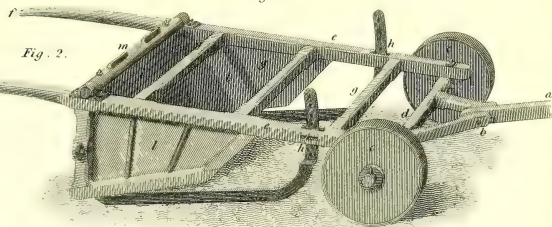


Fig. 2.

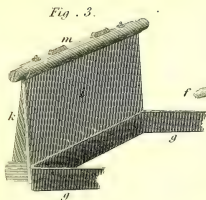
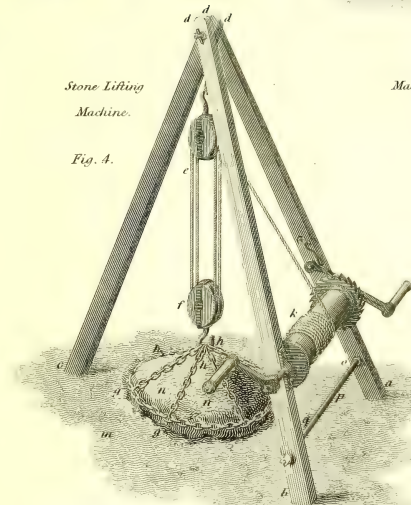


Fig. 3.

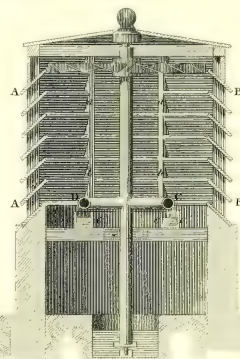
*Stone Lifting
Machine.*

Fig. 4.



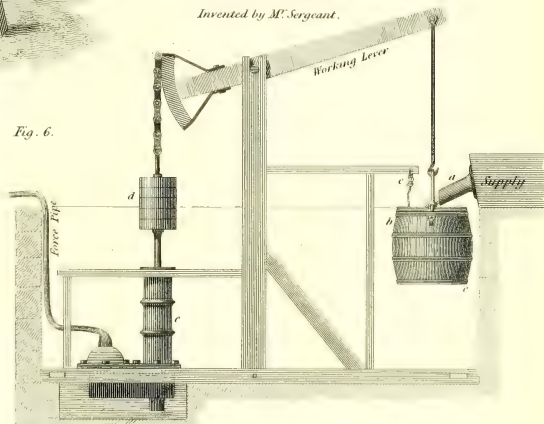
*Machine for Raising
Water.*

Fig. 5.

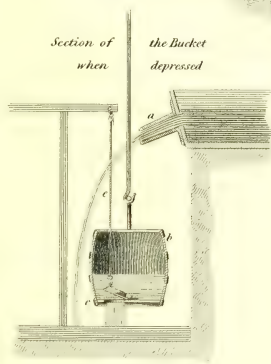


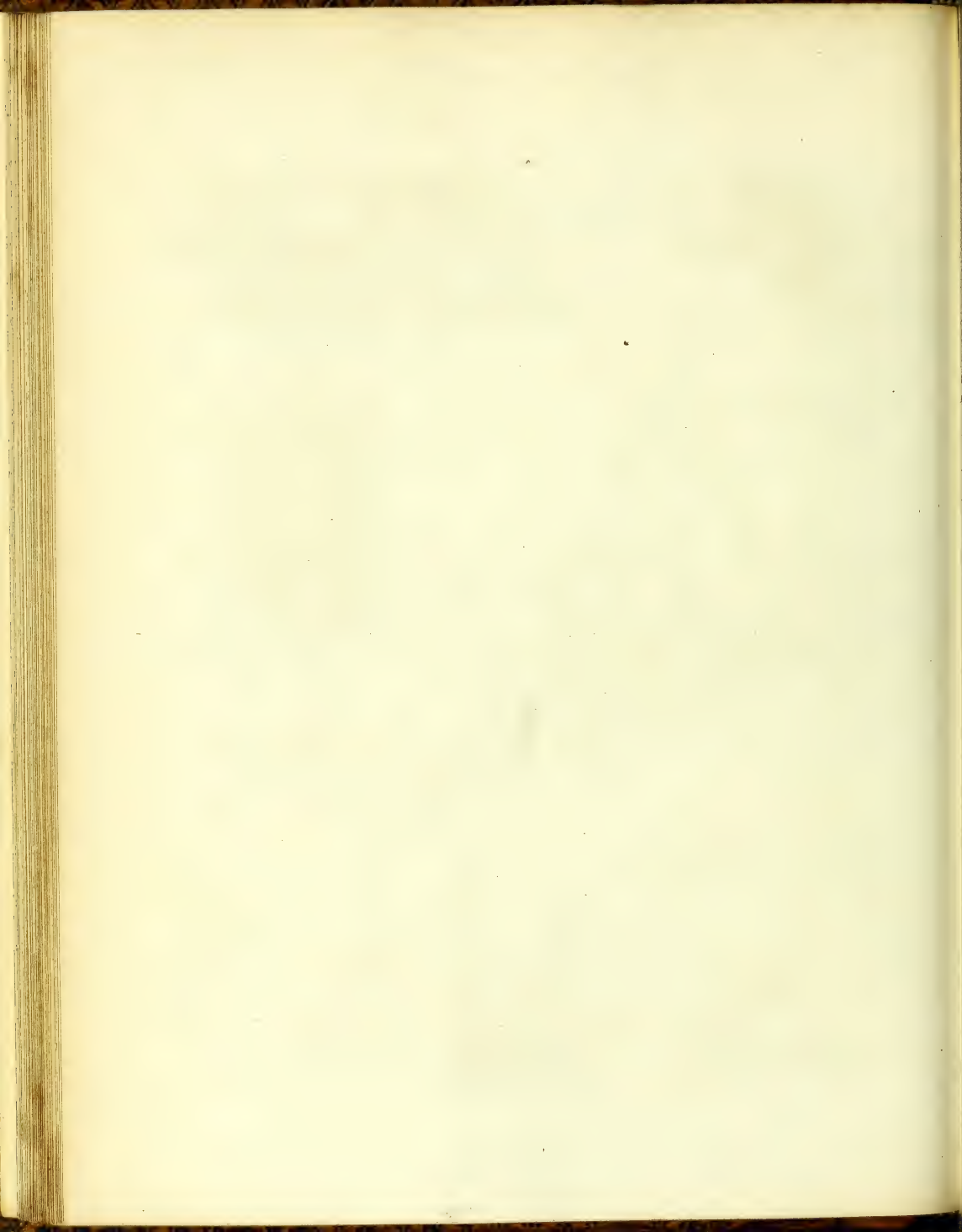
*Machine for Raising Water
Invented by M^r Sargant.*

Fig. 6.

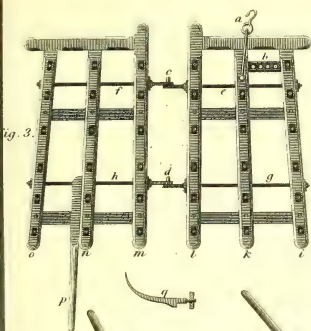


*Section of
when
the Bucket
depressed*

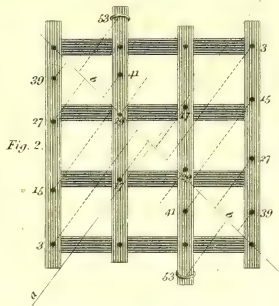




Double Jointed Harrow



Improved Harrow



Common Harrow

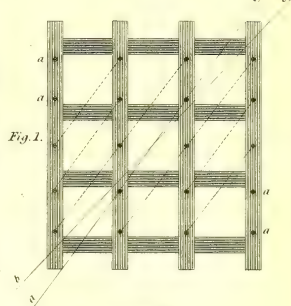
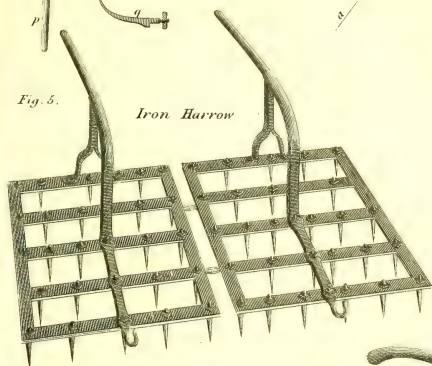


Fig. 5.

Iron Harrow



Double Harrow with top bar:

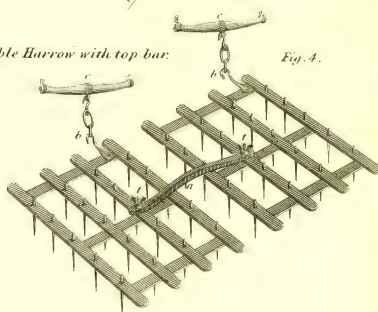


Fig. 6. Grass Harrow

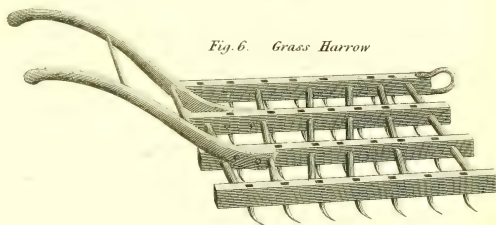
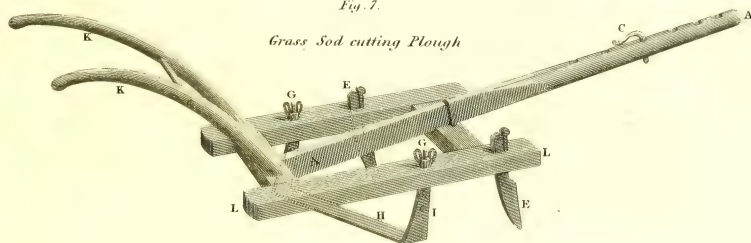


Fig. 8.

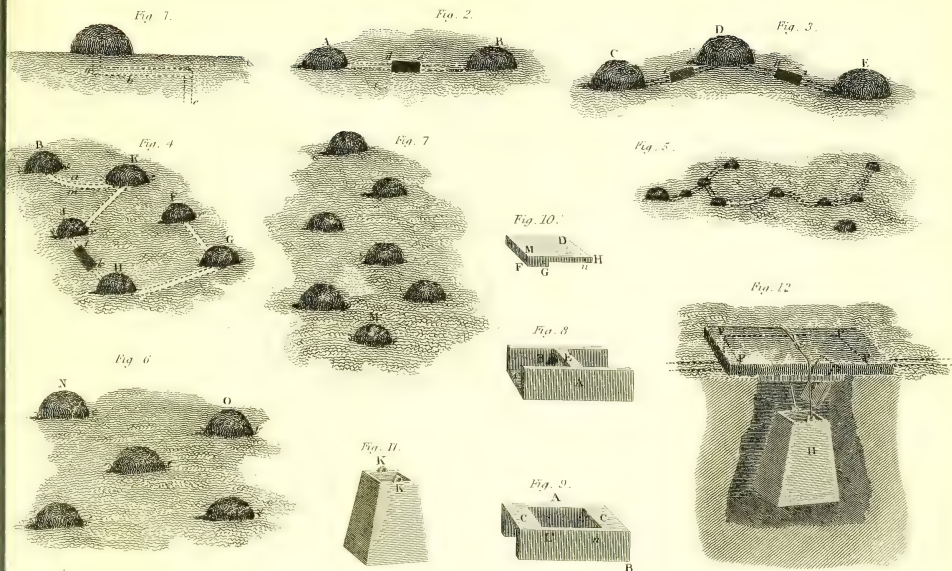


Fig. 7.

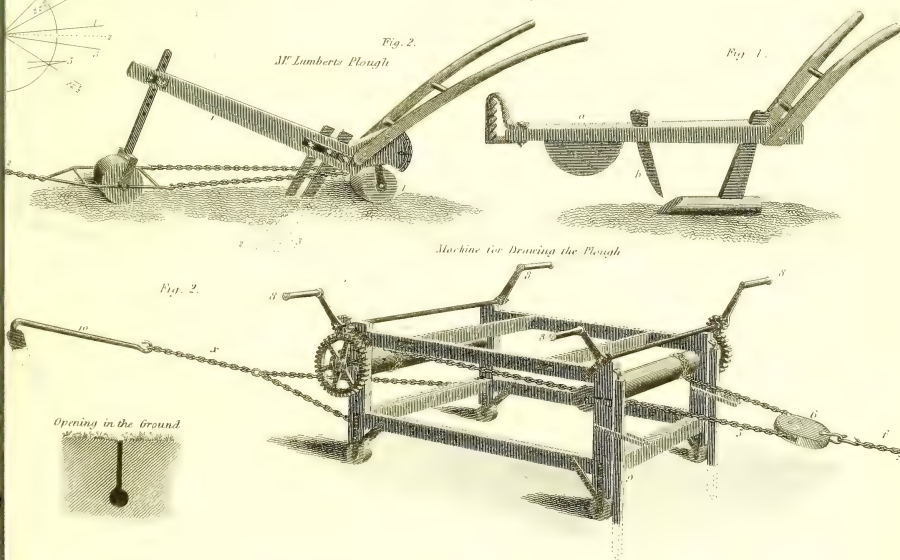
Grass Sod cutting Plough

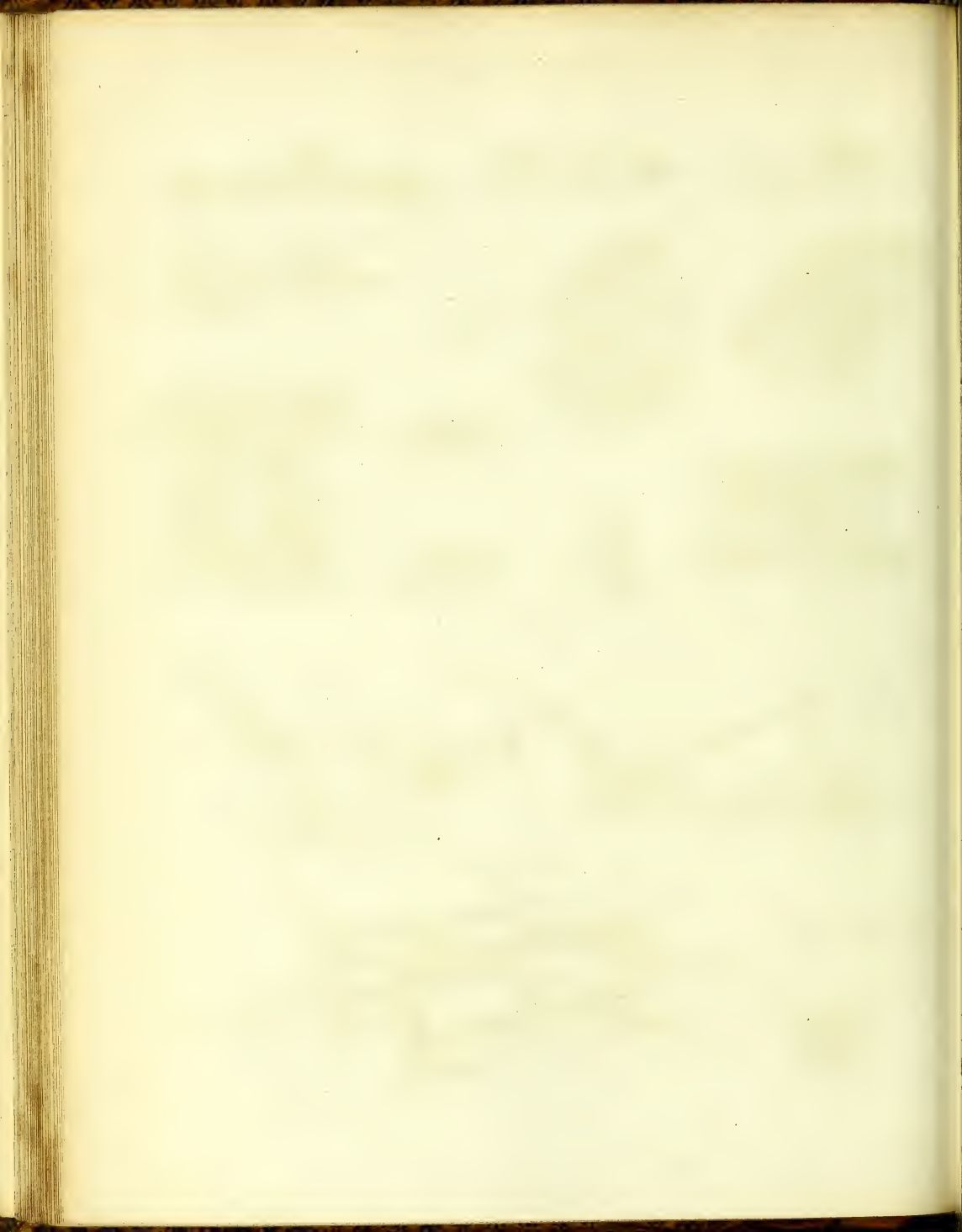


Mole Catching



Mole Ploughs





SWING PLOUGHS.

Fig. 1.

Rotherham Plough.

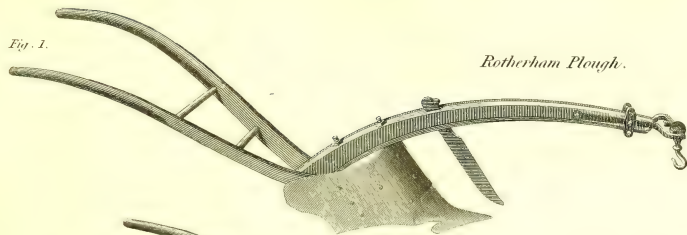


Fig. 2.

Small's Chain Plough.

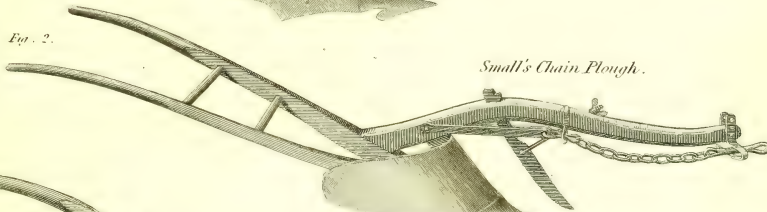


Fig. 3.

L^d Somerville's.

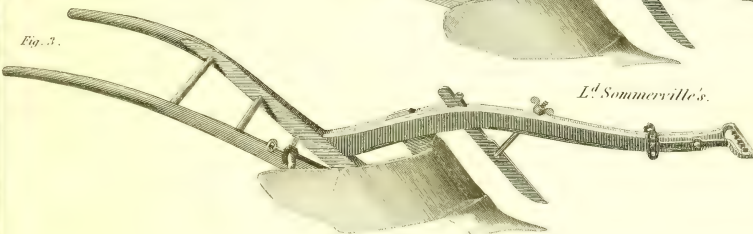


Fig. 4.

Suffolk Iron Plough.

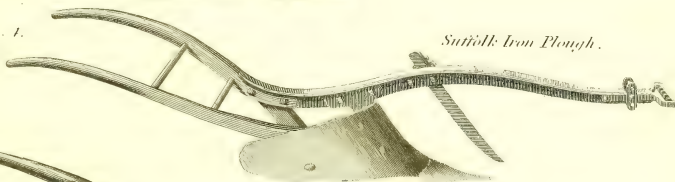


Fig. 5.

Duckets Skin-cutter.

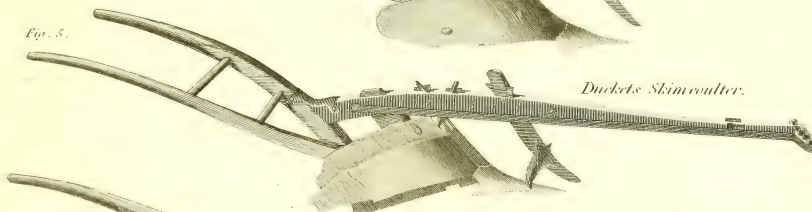
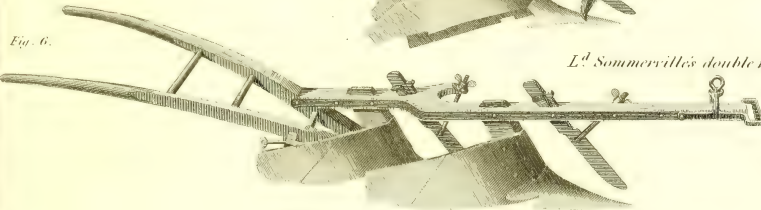
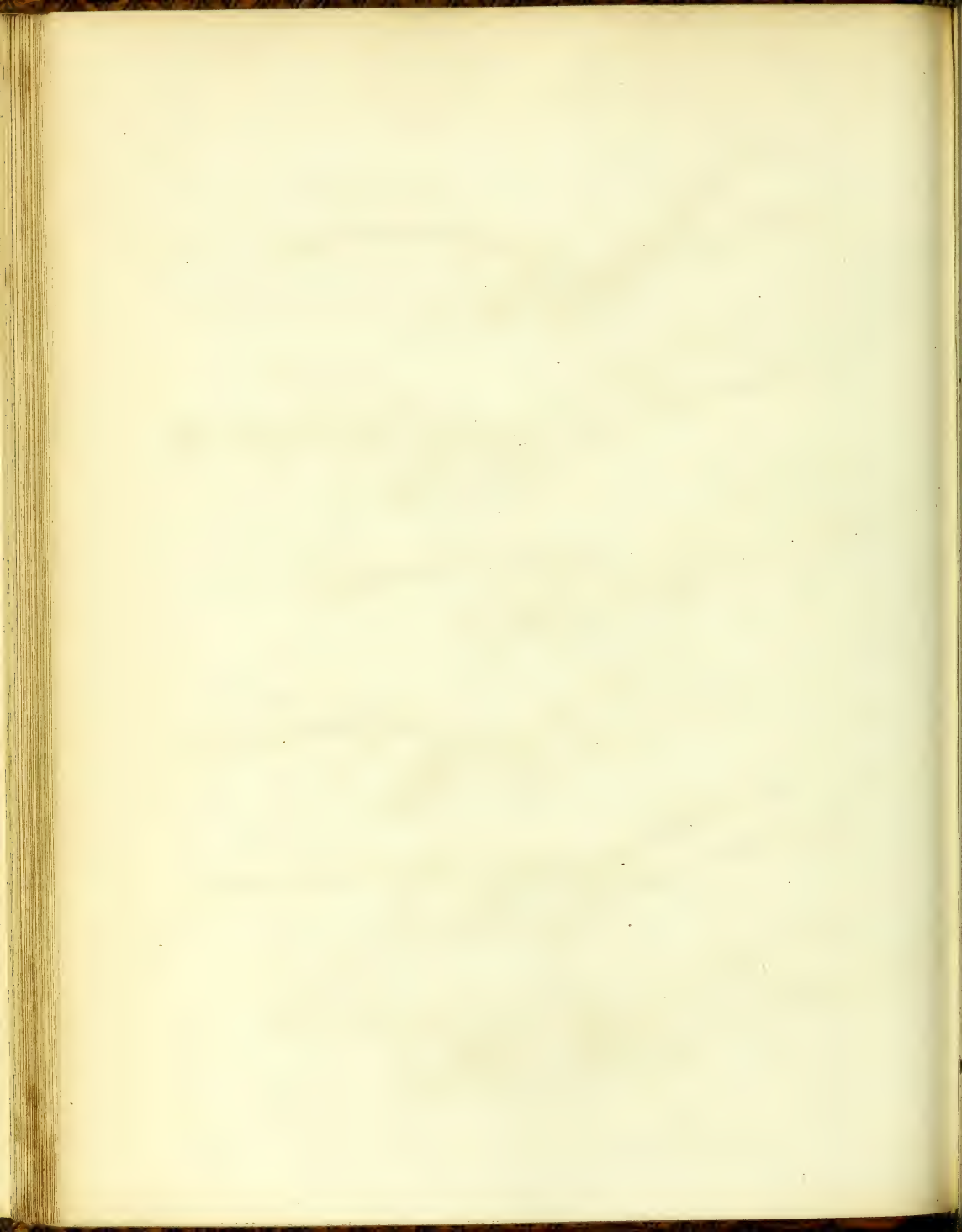


Fig. 6.

L^d Somerville's double furrow.





WHEEL PLOUGHS.

Fig. 1.

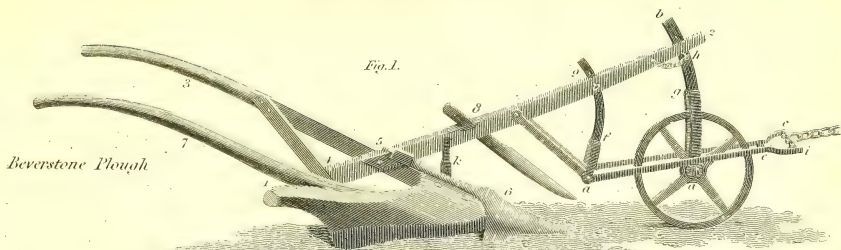


Fig. 2.

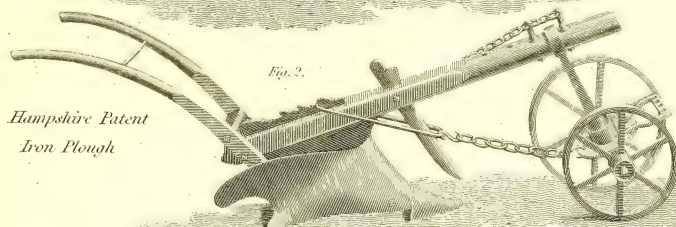


Fig. 3.

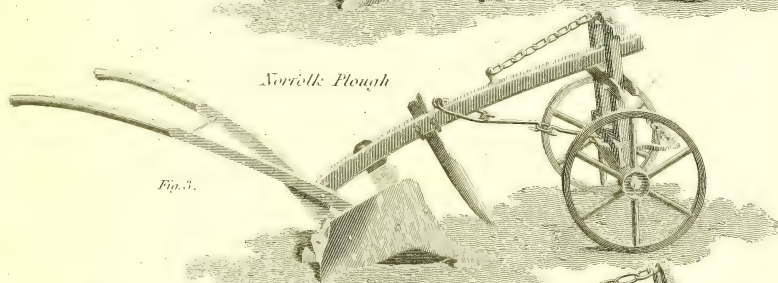


Fig. 4.

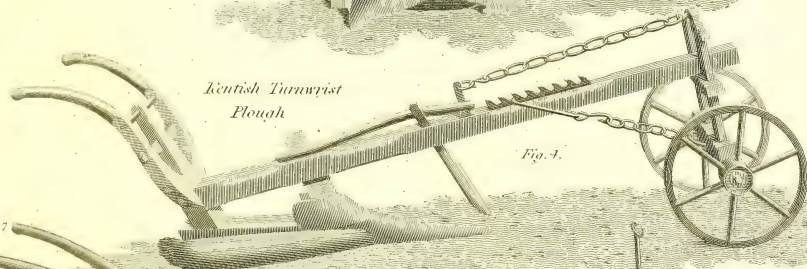
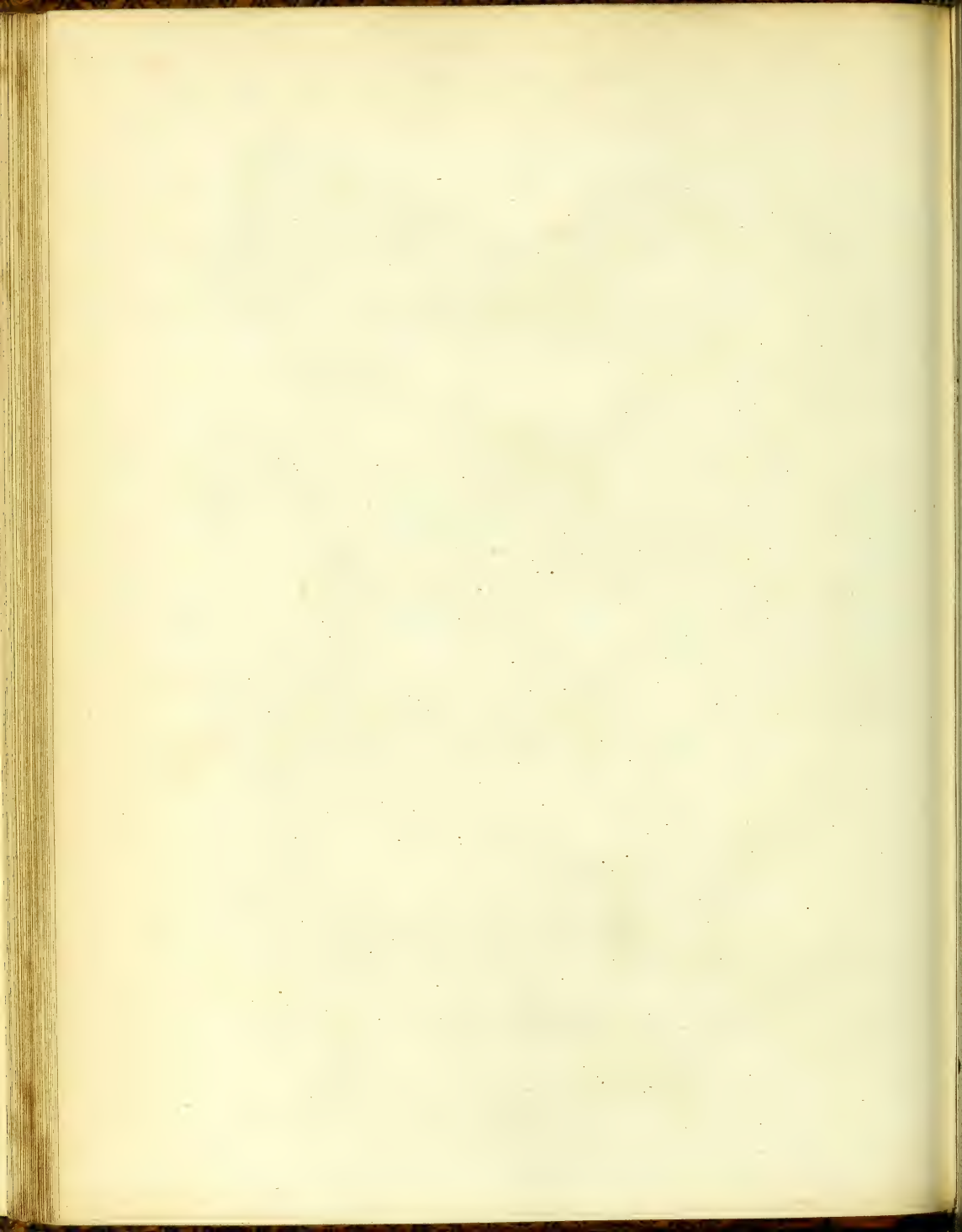


Fig. 5.





AGRICULTURE.
PARING PLOUGHS & TOOLS.

Cheshire Paring Plough, furrow side view.

Fig. 1.

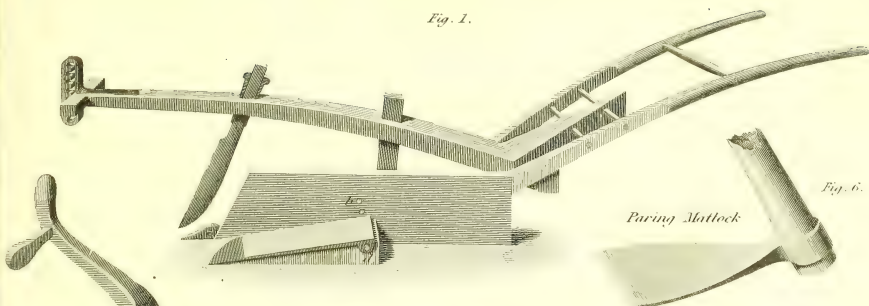
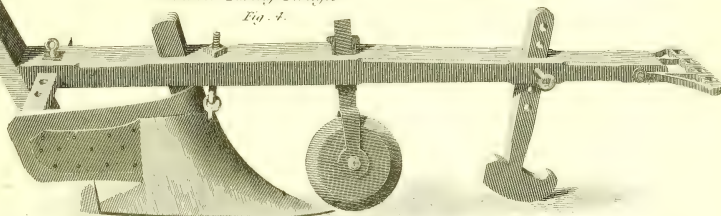


Fig. 6.

Paring Mattock



*Common Paring Plough
Fig. 4.*



*Paring Adze
Fig. 8.*



Fig. 7.

*Two-bill
for Paring*

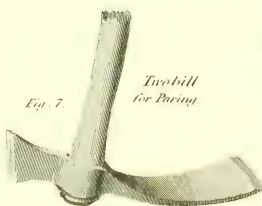
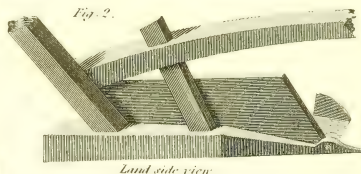


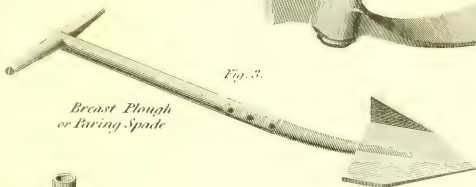
Fig. 2.



Land side view

Fig. 3.

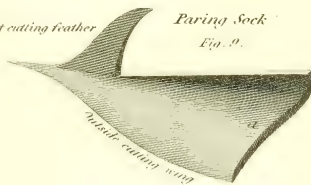
*Breast Plough
or Paring Spade*

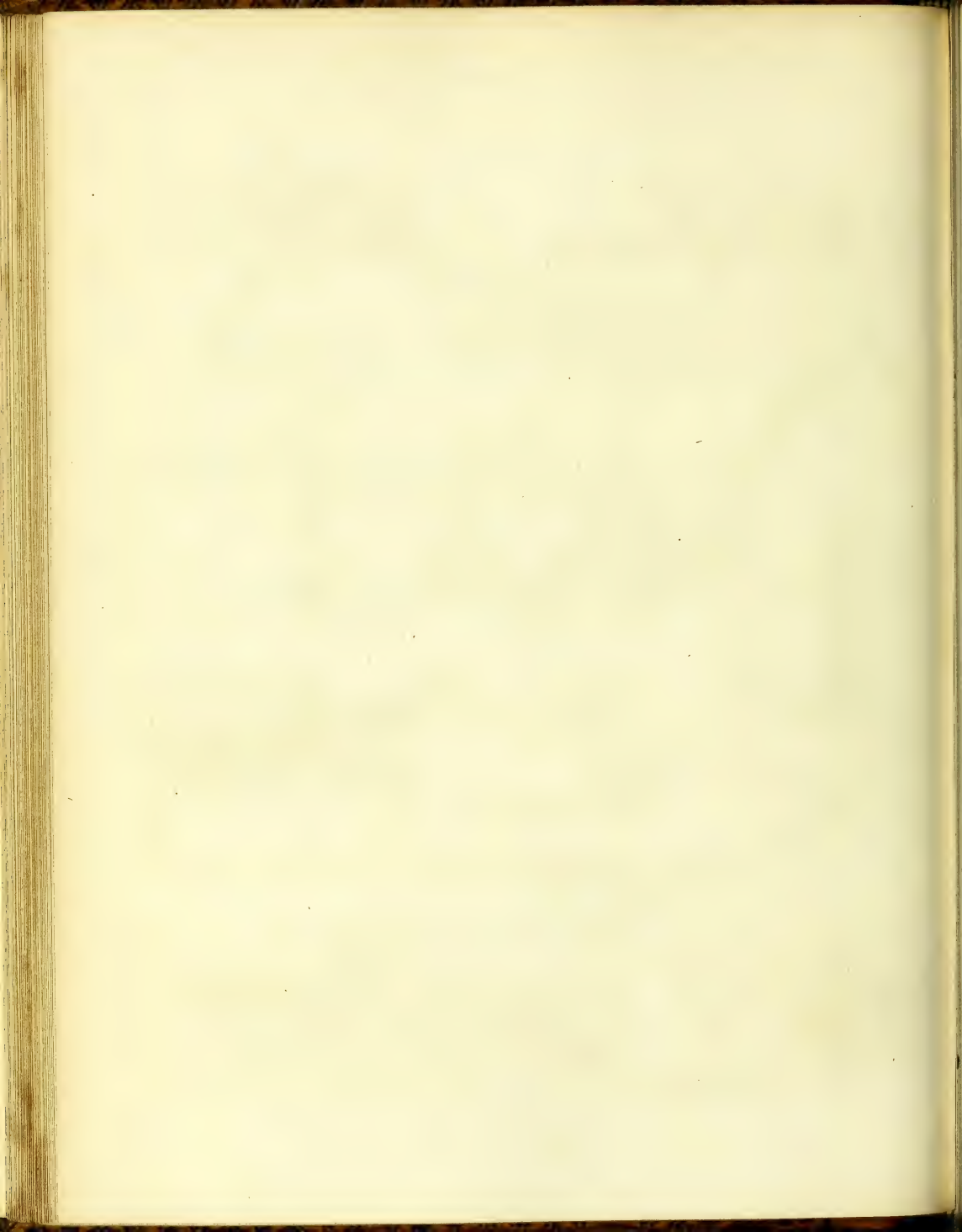


*Paring Shovel
Fig. 5.*

T upright cutting feather

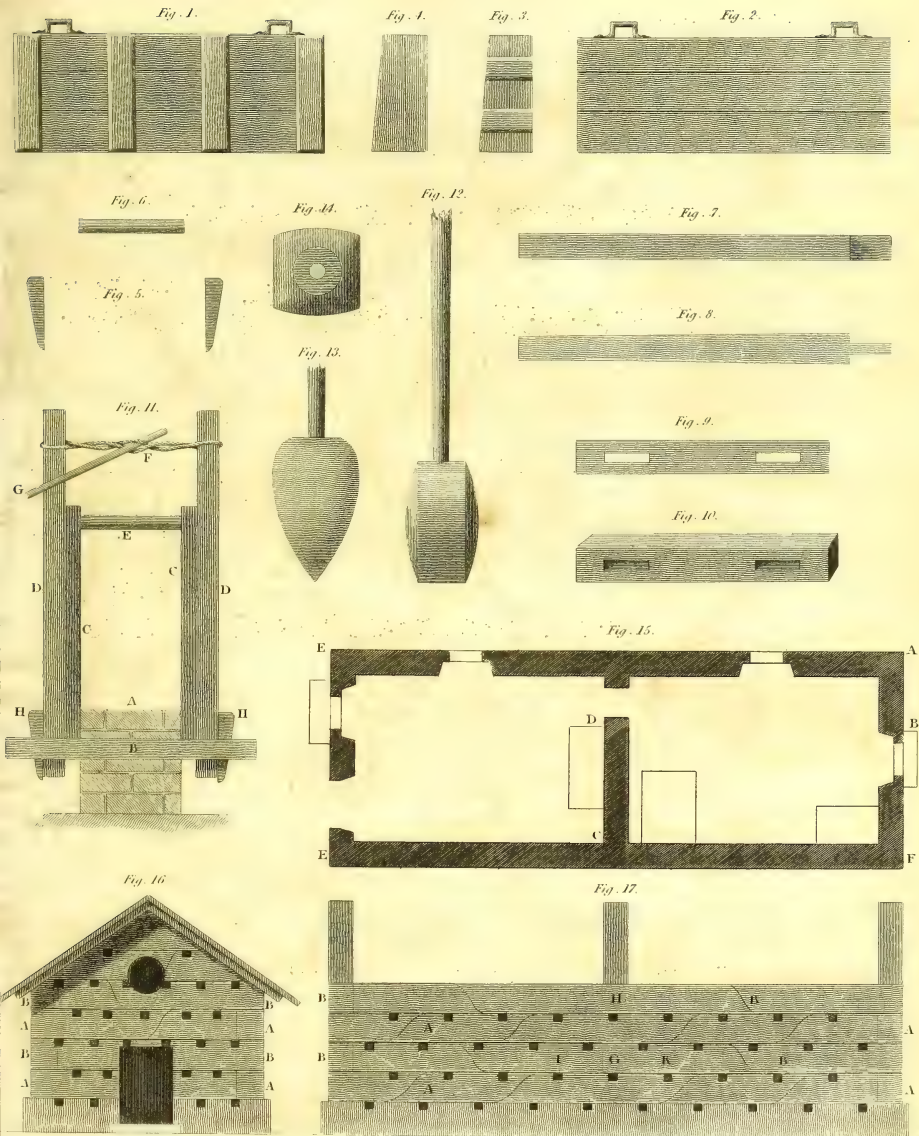
*Paring Sock
Fig. 9.*





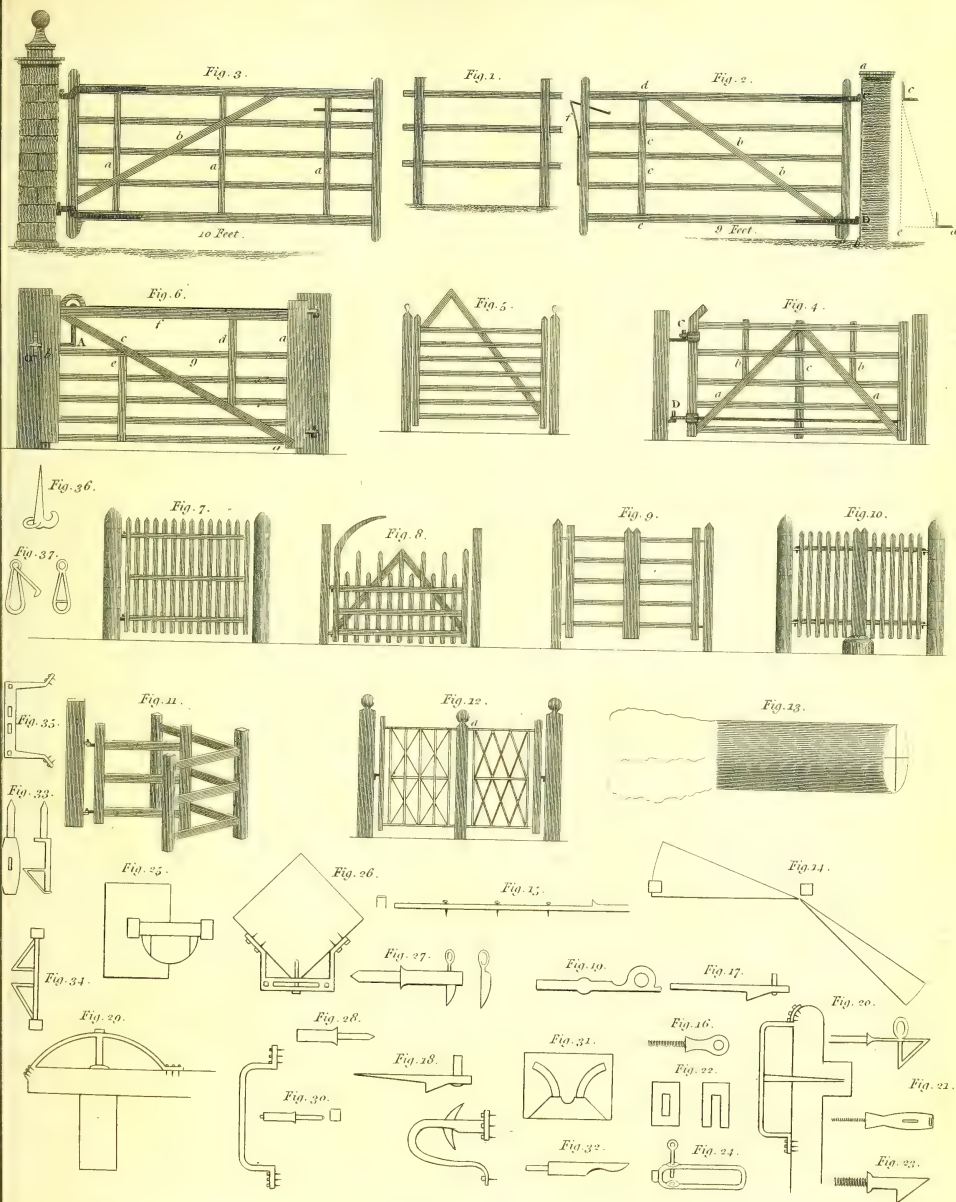
PISE.

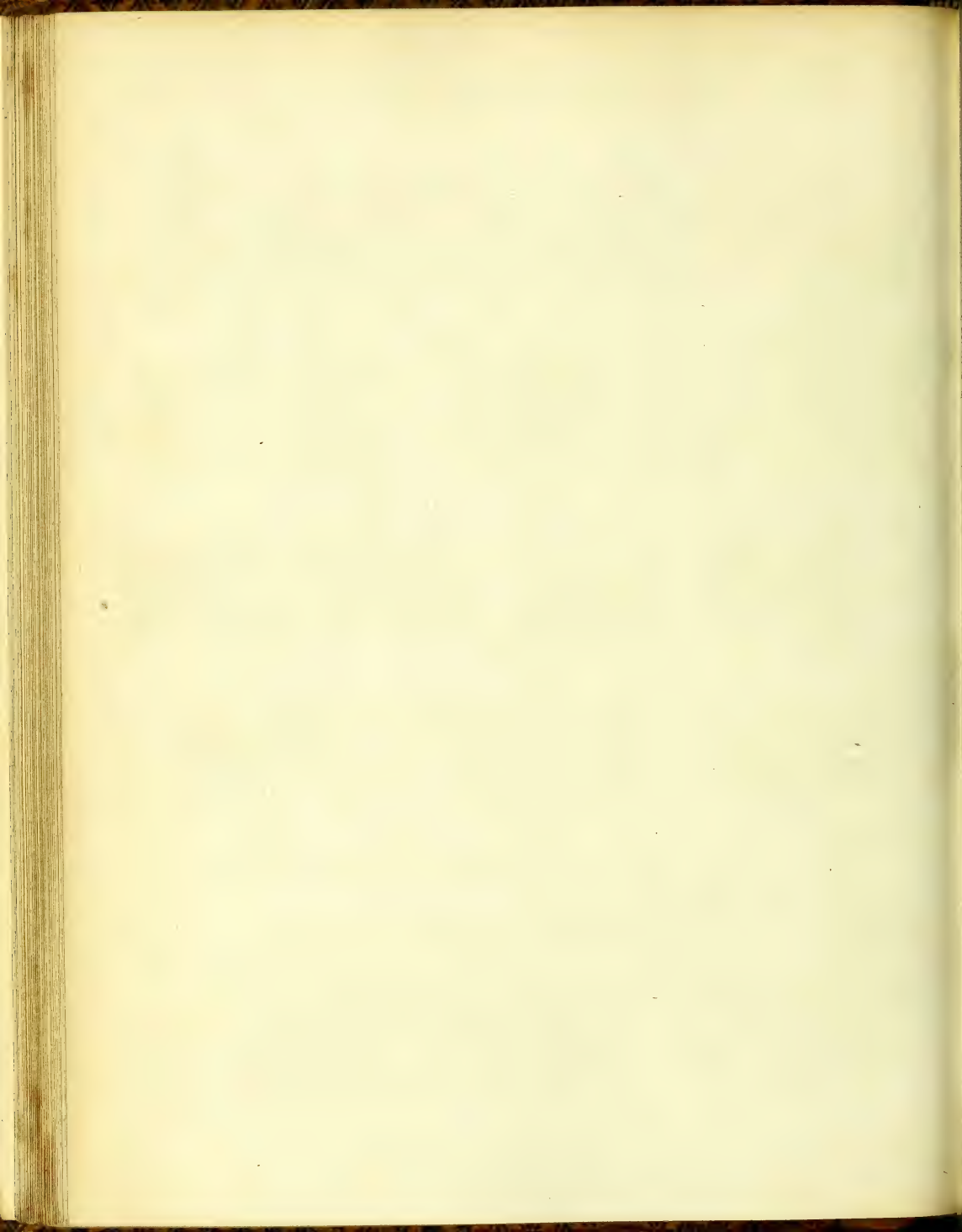
Implements for Pise or Rammed Earth Buildings.

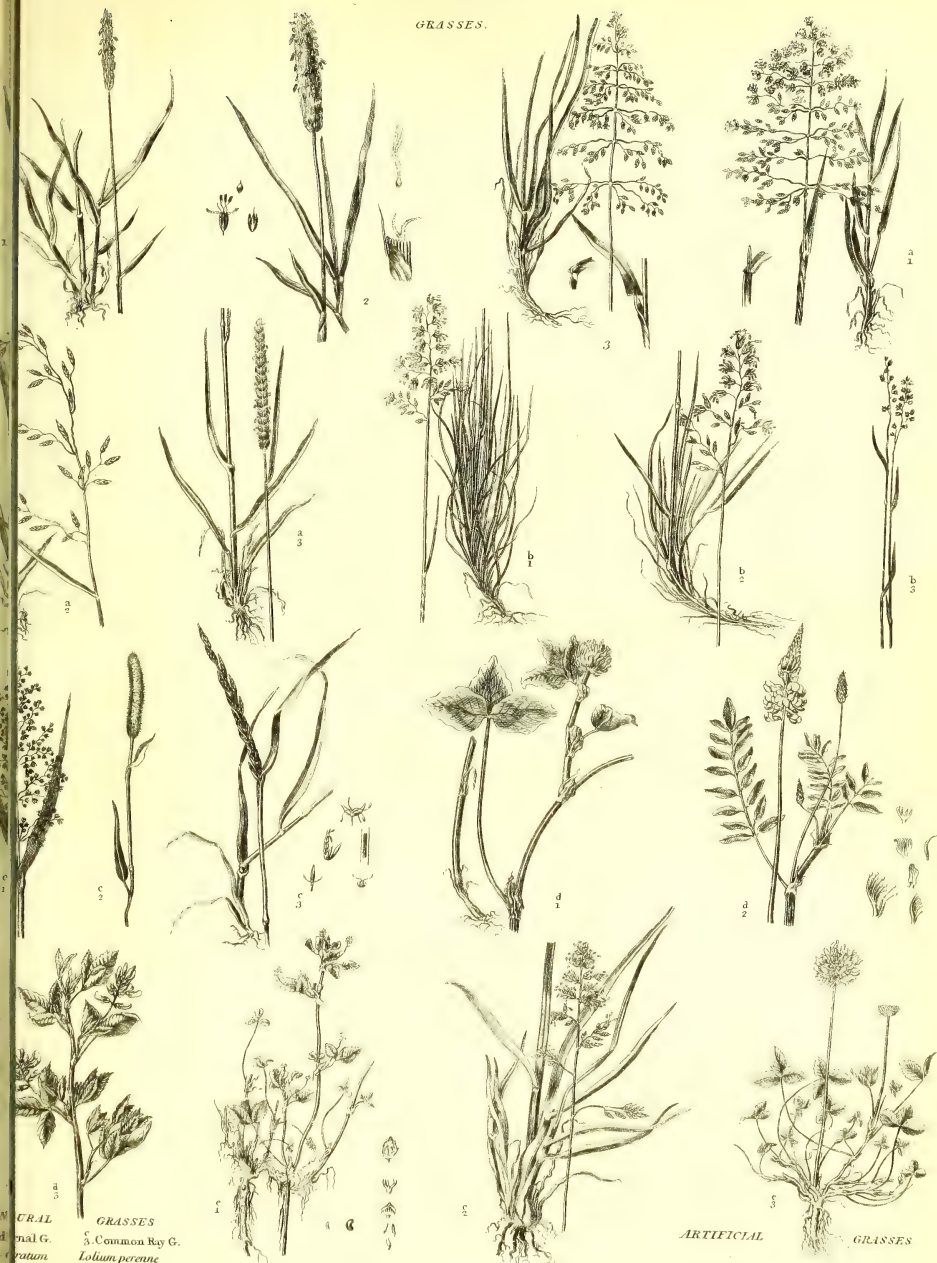


AGRICULTURE.

GATES, HANGINGS AND FASTENINGS.







GRASSES
1. Common Ryegrass
Lolium perenne

2. Smooth Stalked Meadow G.
Poa pratensis
3. Hard Fescue G.
Festuca duriuscula

4. Rough Stalked M.G.
Poa trivialis
5. Flat Meadow G.
Poa compressa

6. Meadow Fescue G.
Festuca pratensis
7. Marsh Meadow G.
Poa palustris

8. Crested Dogtail G.
Cynosurus cristatus
9. Knot Grass
Phleum nodosum

10. Red or Broad Clover
Trifolium pratense
11. Trefoil
Medicago lupulina

12. Saintfoin
Holyacum onobrychie
13. Rough Cocks foot G.
Dactylis glomerata

14. Laccina
Meltingo sativa
15. White or Dutch C.
Trifolium repens

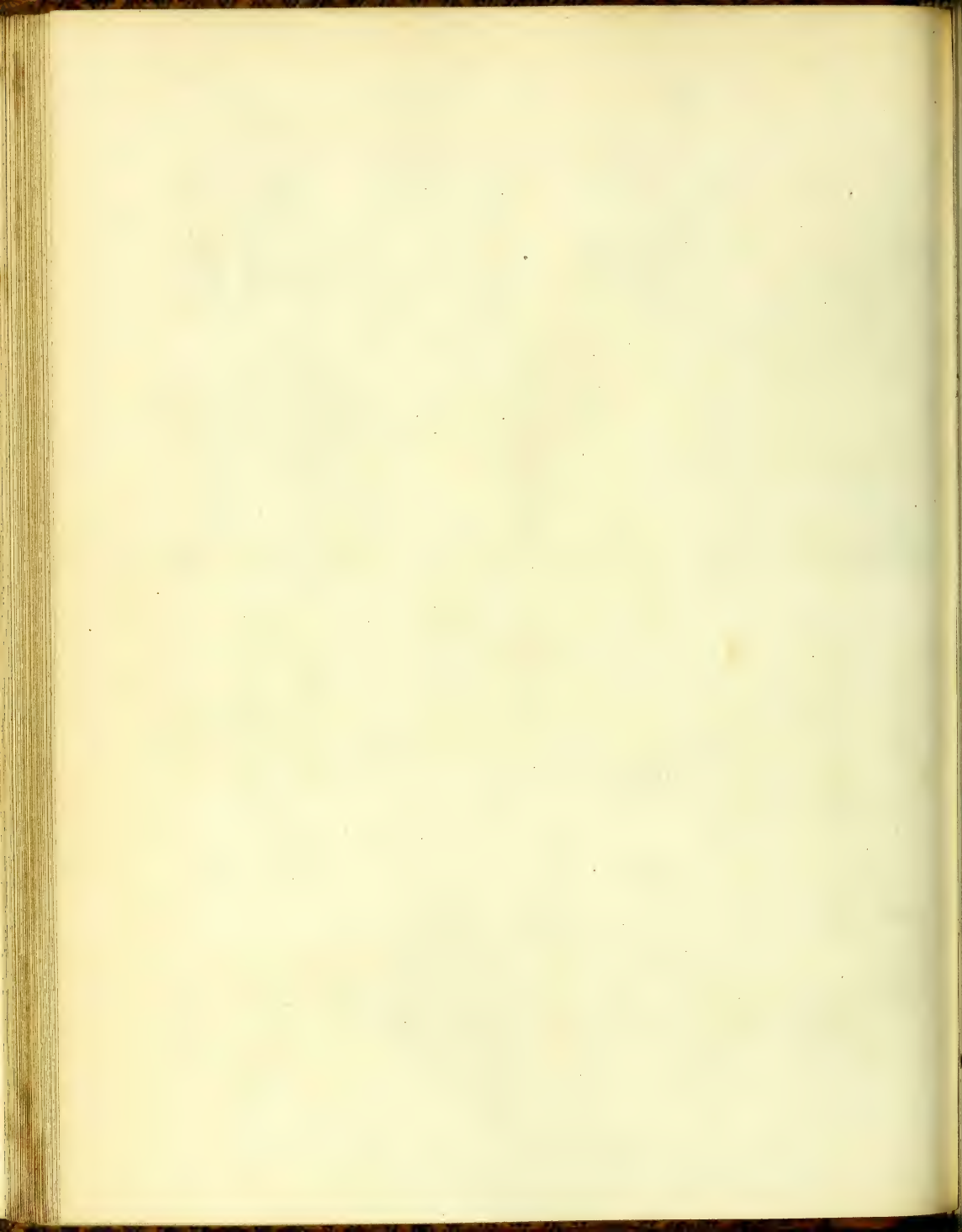


Fig. 3.

Kiln for General Use.

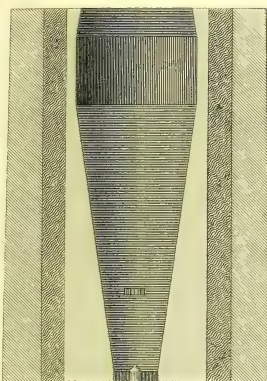


Fig. 2.

M^r Rawson's Kiln.

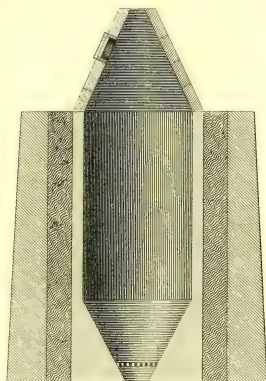
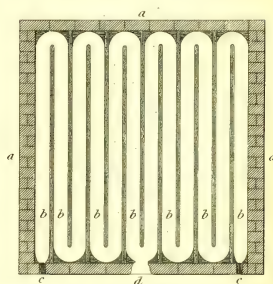


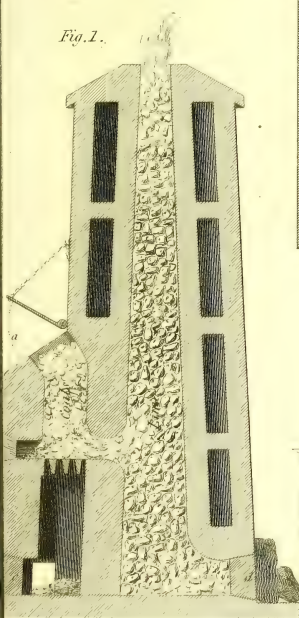
Fig. 8.

M^r Coppinger's Malt Kiln.



Count Rumford's
Lime Kiln.

Fig. 1.



M^r Fepper's Malt Kiln.

Fig. 6. Plan of the Floor of the kiln.

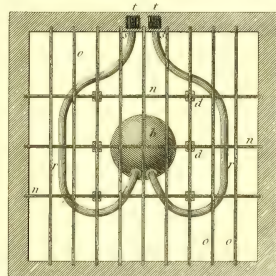
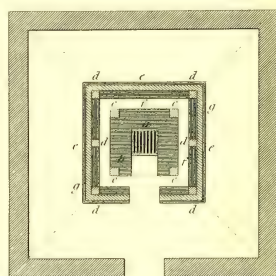


Fig. 4. Ground Plan.



Section of the chimney.

Fig. 7.

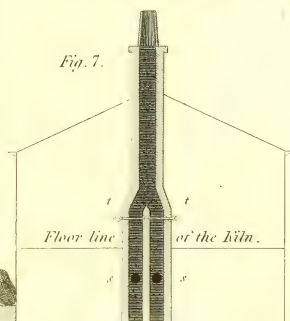
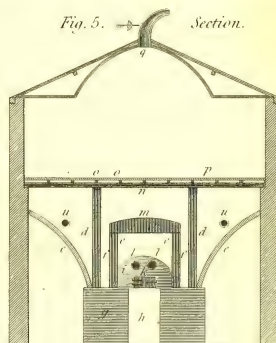


Fig. 5.

Section.



Fan Machine.

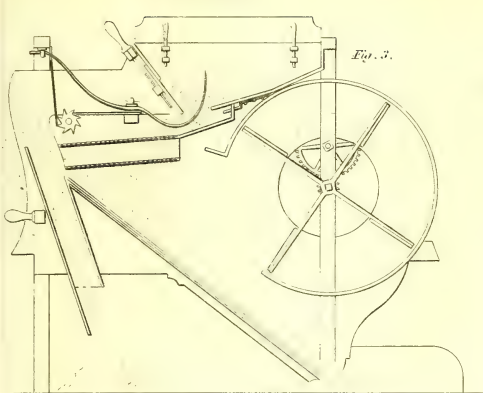


Fig. 3.

Berne Machine.

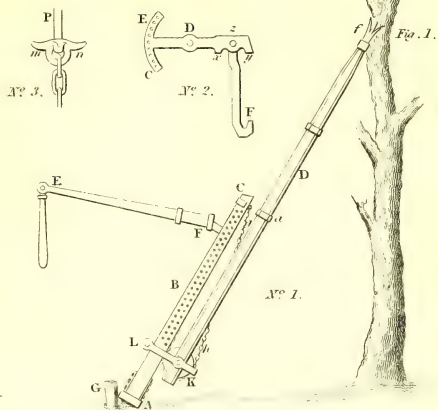


Fig. 1.

Yorkshire Hay Sweep.



Fig. 5.



b.

Lactometer.

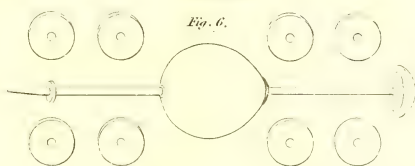
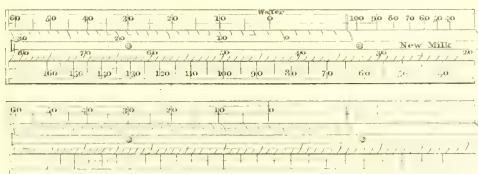


Fig. 6.



Borers.

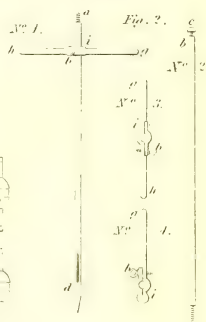


Fig. 2.

Lime Stone Pounding Machine.

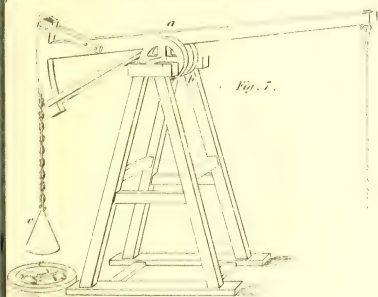


Fig. 7.

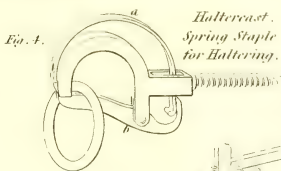


Fig. 4.

Haltervast.
Spring Staple
for Haltering.

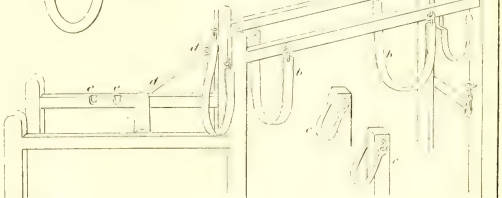


Fig. 8.

The Shoving Machine.

QUARRIES, PITS, MINES &c. Draining them.

Fig. 1. Section of the DRAINS.

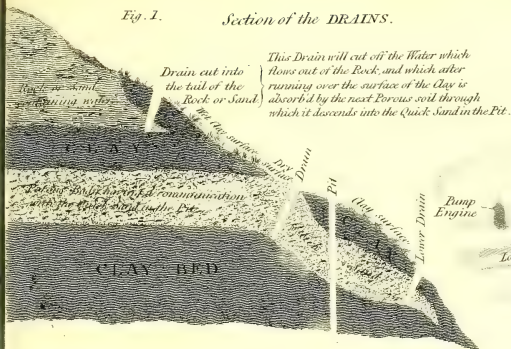


Fig. 2.

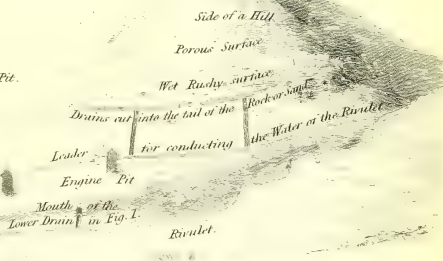


Fig. 4.

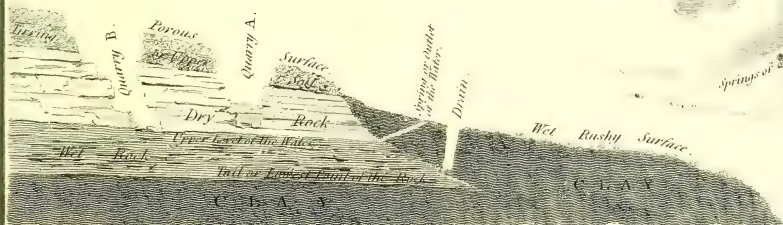
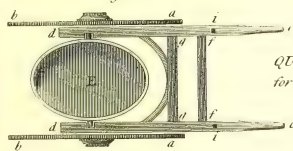


Fig. 3.

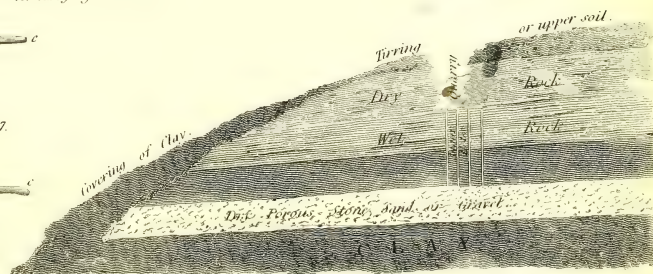


Fig. 6.

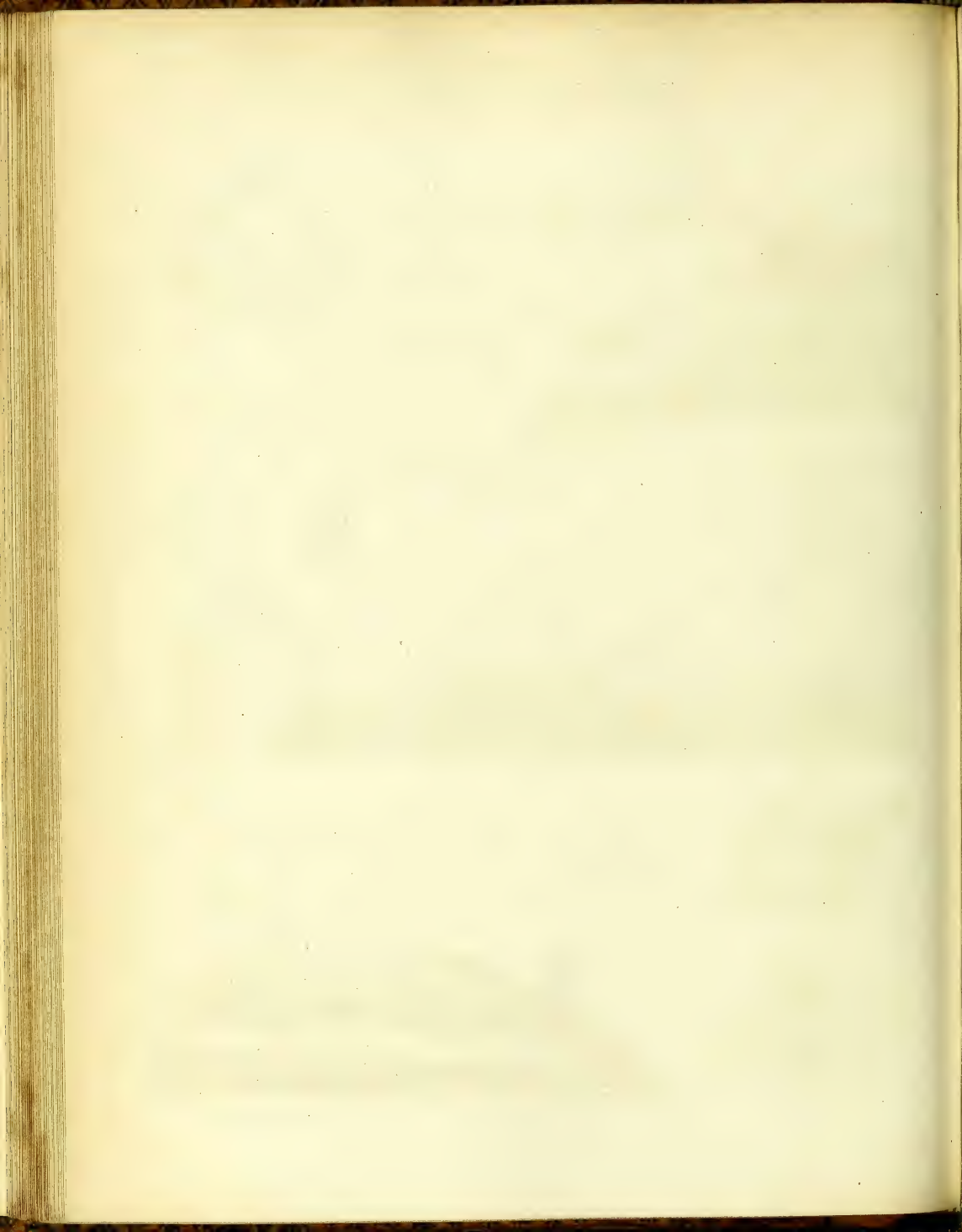


QUENDON BARROW
for carrying water.

Fig. 5.



Perhaps under this Clay Bed there may be another dry porous stratum into which the water may be let down and reduced to a still lower level, and this may be ascertained by boring an upper hole through the Clay.



AGRICULTURE. POTATOE HARROW and SET SCOOPS.

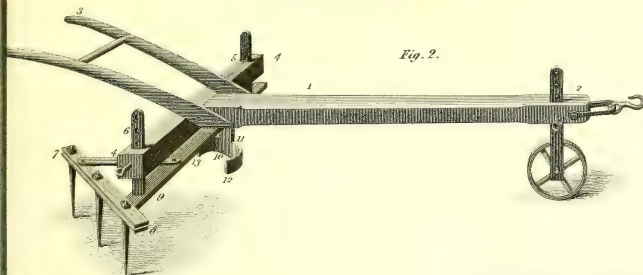


Fig. 2.

Side View

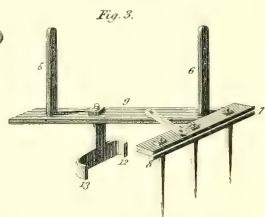


Fig. 3.

Construction of Ponds.

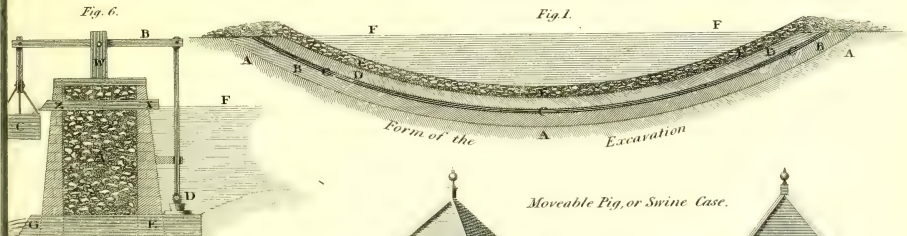


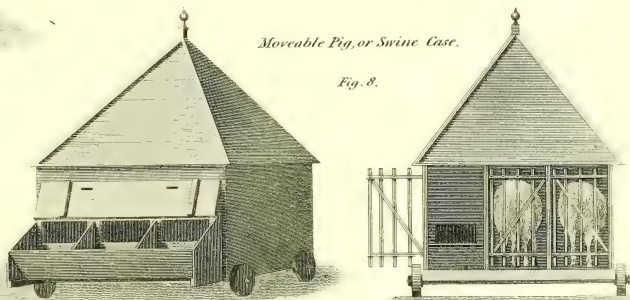
Fig. 6.

Fig. 1.

Form of the Excavation

Moveable Pig or Swine Case.

Fig. 8.



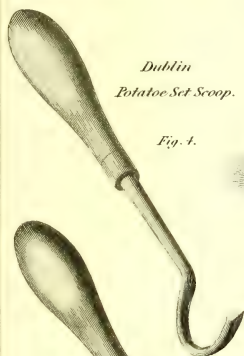
Fixed Pig or Swine Case.



Fig. 7.

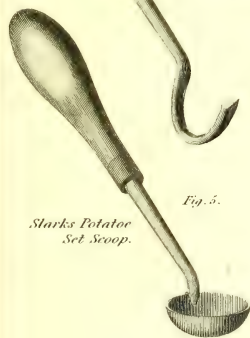
Dublin
Potatoe Set Scoop.

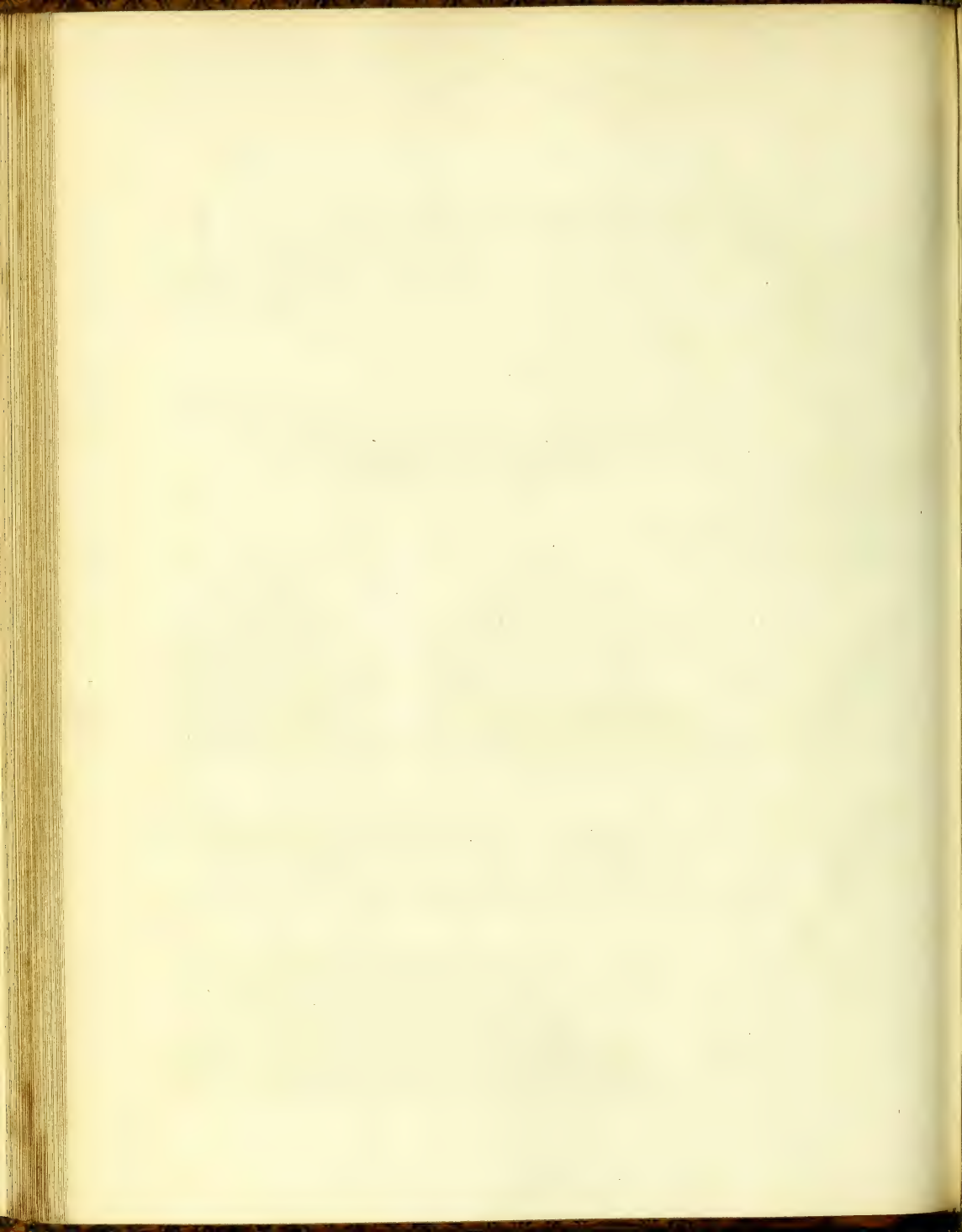
Fig. 4.



Starks Potatoe
Set Scoop.

Fig. 5.





THE PIGGERY AT HIS GRACE THE DUKE OF BEDFORD'S FARM AT WOBURN ABBEY.

Fig. 2.

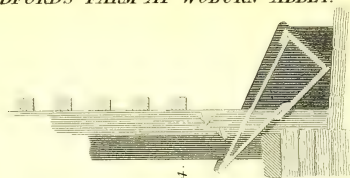
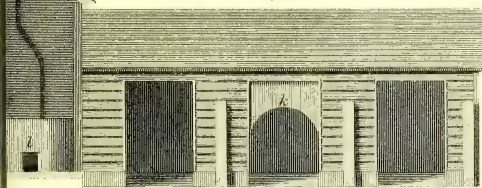


Fig. 4.

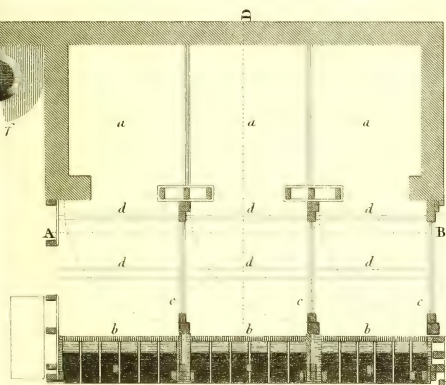


Fig. 1.

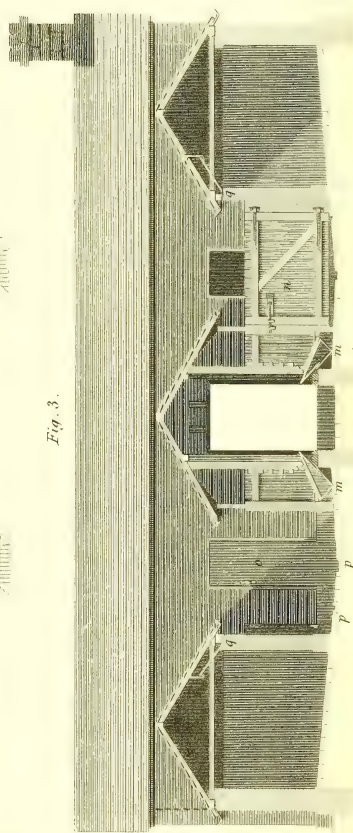
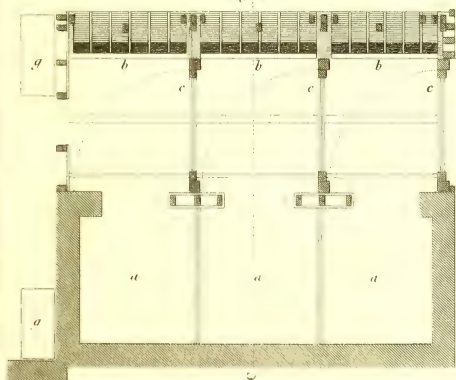
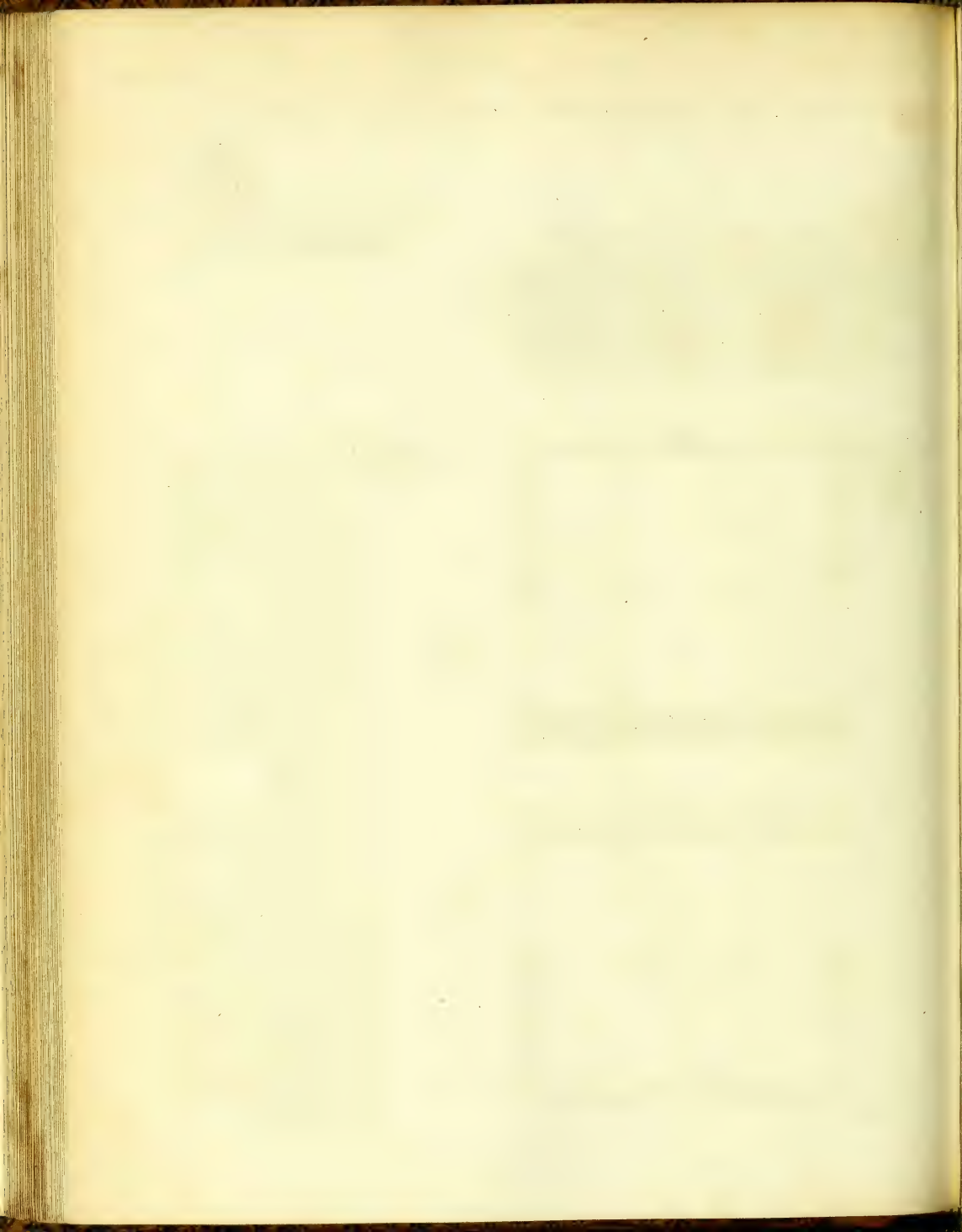


Fig. 3.

5 10 20 30 40 Feet



PALPABLE ARITHMETIC AND WRITING.

Fig. 1.



Fig. 2.

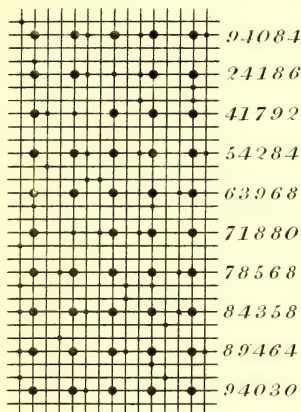
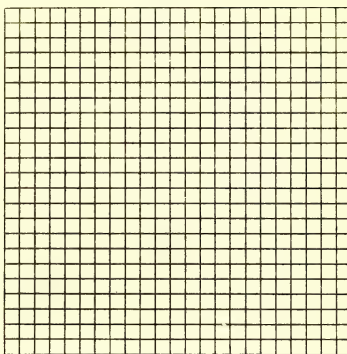


Fig. 3.



ART OF WRITING IN THE DARK.

Fig. 7.

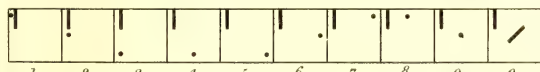
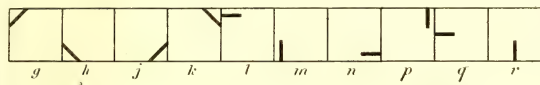
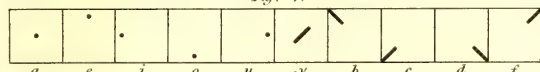
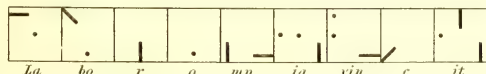
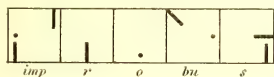
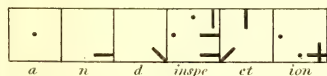


Fig. 8.



Denominations of the Letters.

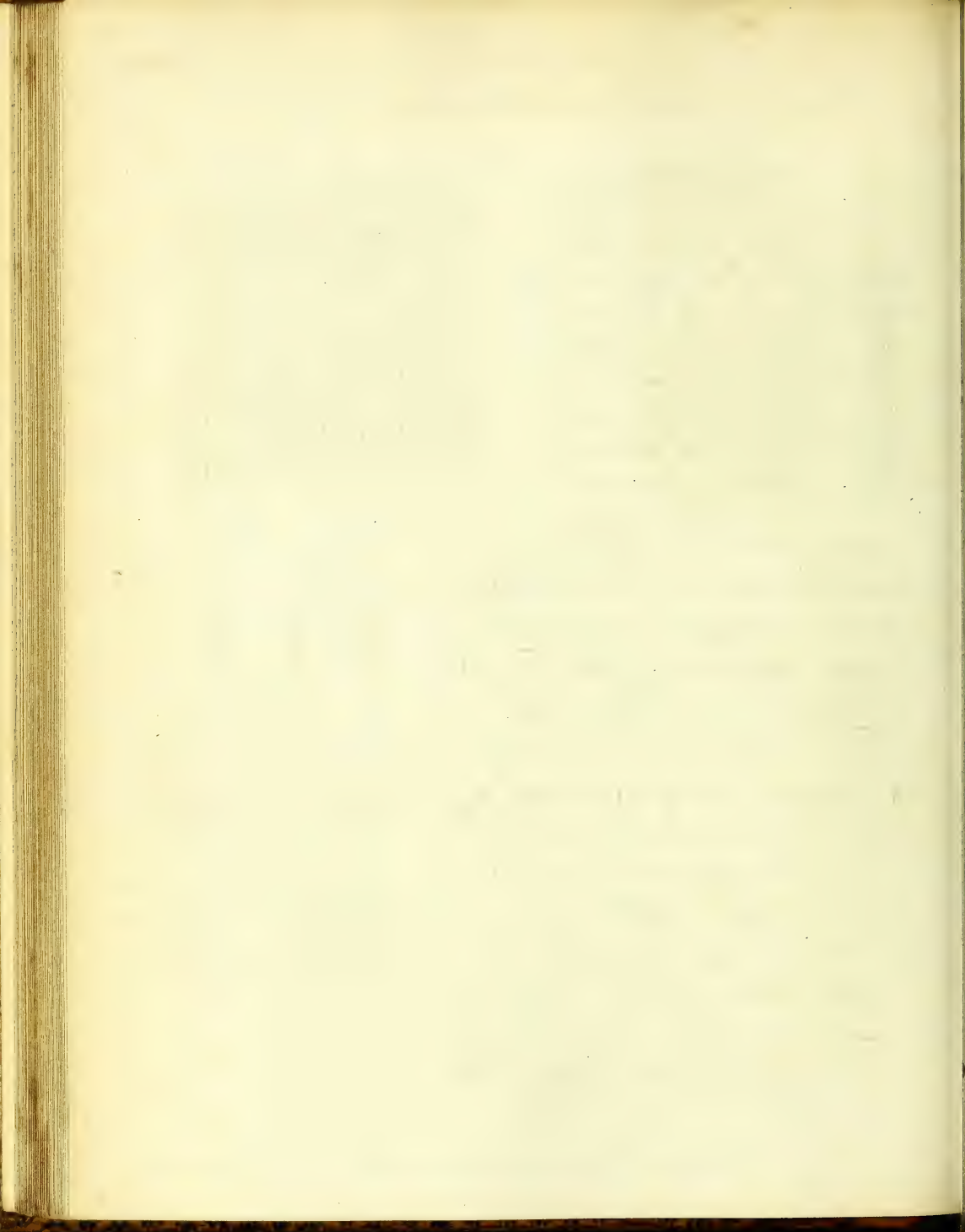
1 2 3 4 5 6 7 8 9 10 11 12 13
 b l i c m o d n u f p e a
 g q h r j s k y
 v w x z

* The square distinguished by one star underneath contains the mark to denote the end of a word.

** The square so distinguished contains the mark denoting a capital letter.

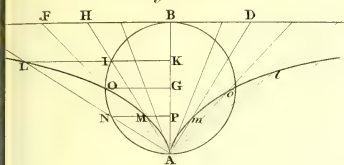
*** The square so distinguished contains the mark signifying a numeral character or number.

$\frac{1}{2}$	12	11 10
3	13	9
4.5	6	$\frac{8}{7}$



CISSEID.

Fig. 1.



CONCHOID.

Fig. 2.

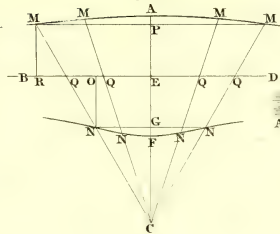


Fig. 3.

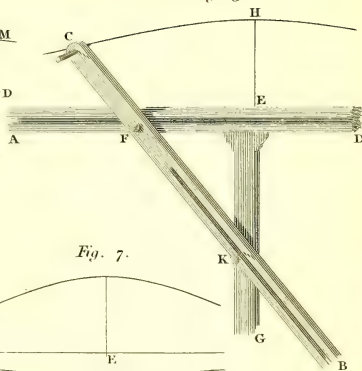


Fig. 4.

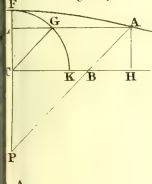


Fig. 5.

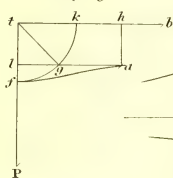


Fig. 6.

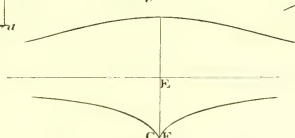


Fig. 7.

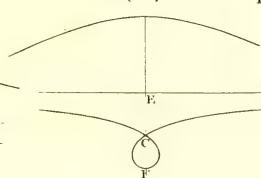


Fig. 8.

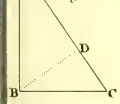


Fig. 9.

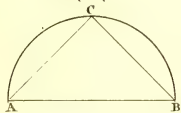


Fig. 10.

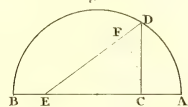


Fig. 11.

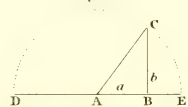


Fig. 12.

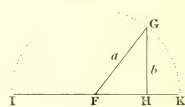


Fig. 13.

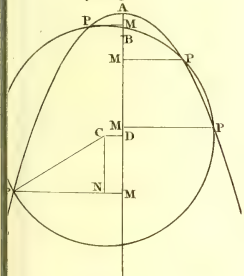


Fig. 14.

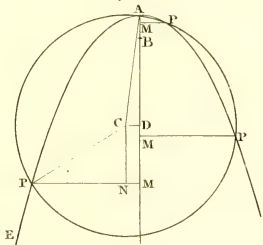


Fig. 16.

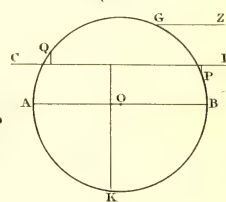


Fig. 15.

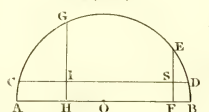


Fig. 18.

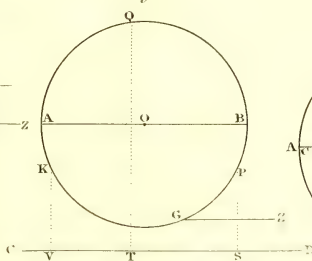


Fig. 19.

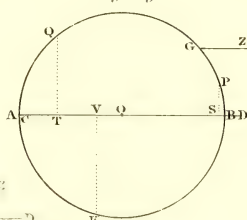
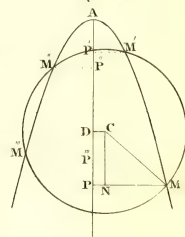
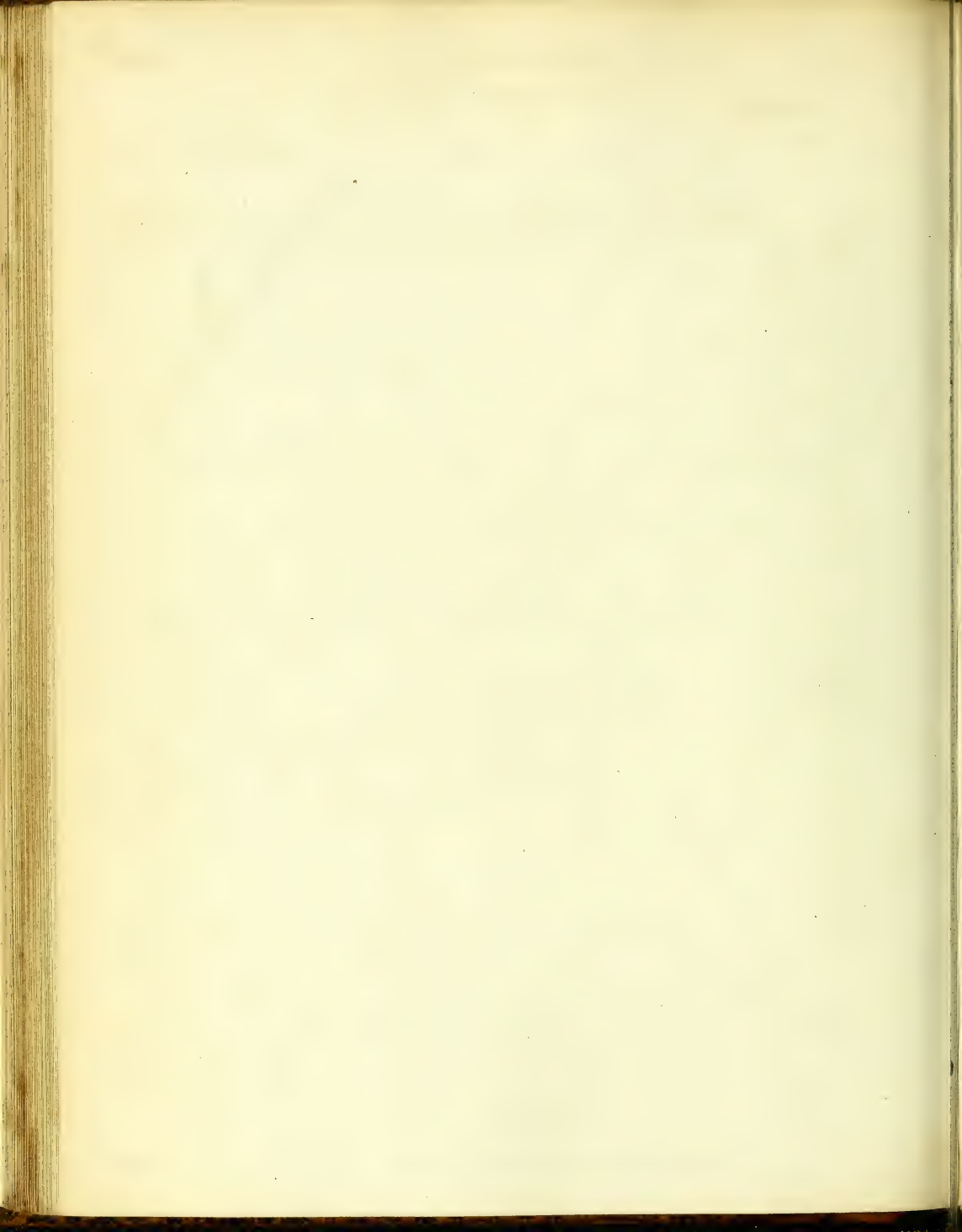


Fig. 20.





COTESIAN Theorem .

Fig. 21 .

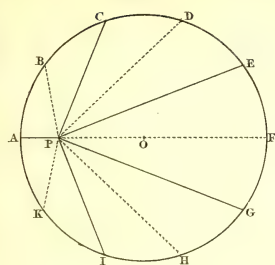
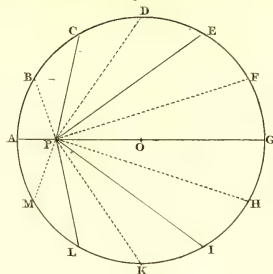
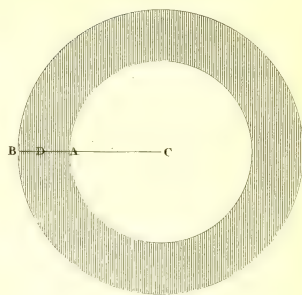


Fig. 22 .



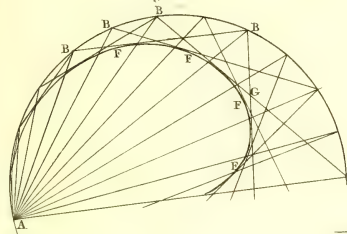
CROWN

Fig. 23 .



CAUSTIC

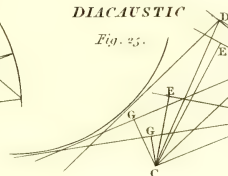
Fig. 24 .



C U R V E

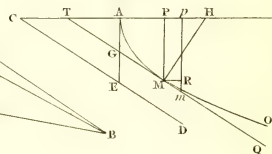
DIACAUSTIC

Fig. 25 .



ELEMENT

Fig. 26 .



C Y L I N D E R .

See the Article referred to as in Geometry Plate IV.

Fig. 4 .

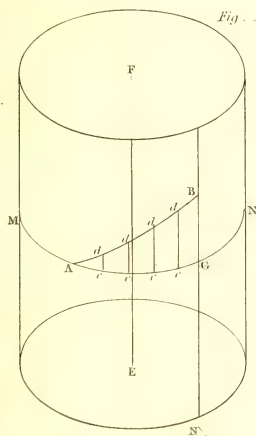
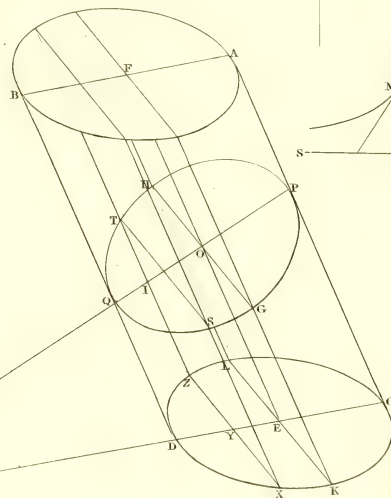
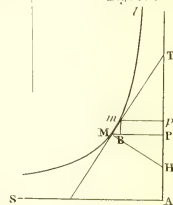


Fig. 3 .



C U R V E

Fig. 26 .



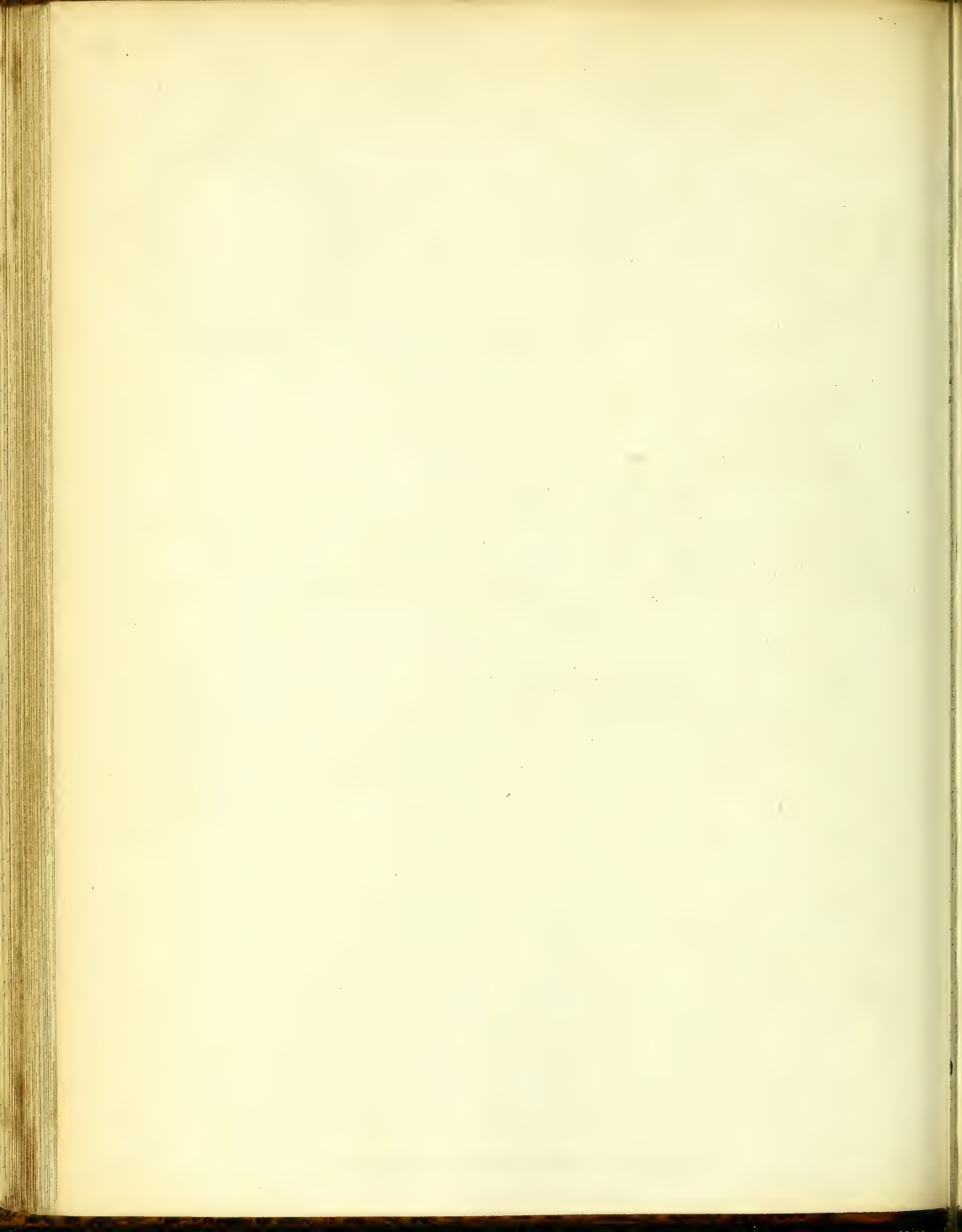


Fig. 1.

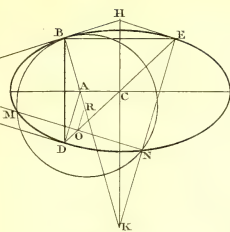


Fig. 2.

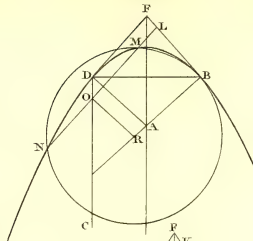


Fig. 5.

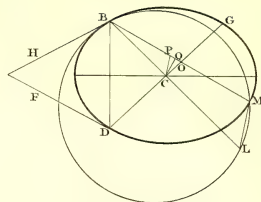


Fig. 3.

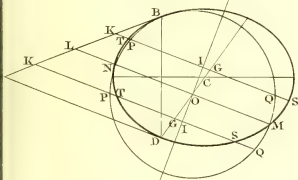


Fig. 4.

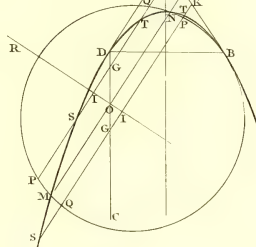


Fig. 6.

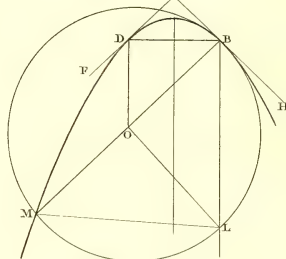


Fig. 7.

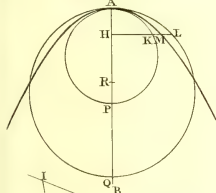


Fig. 8.

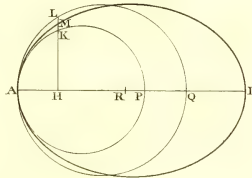


Fig. 9.

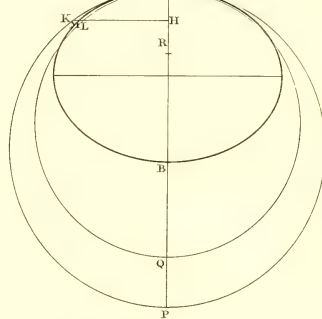


Fig. 10.

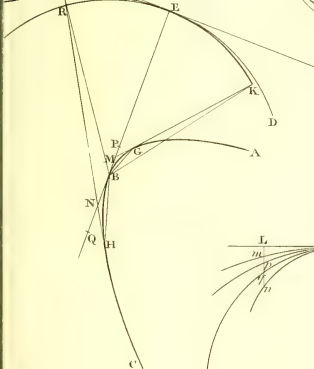


Fig. 11.

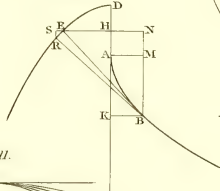


Fig. 12.

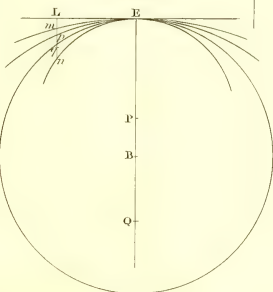
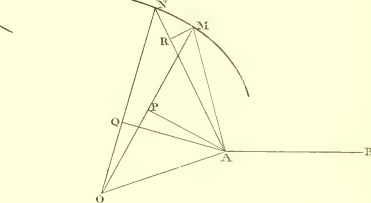
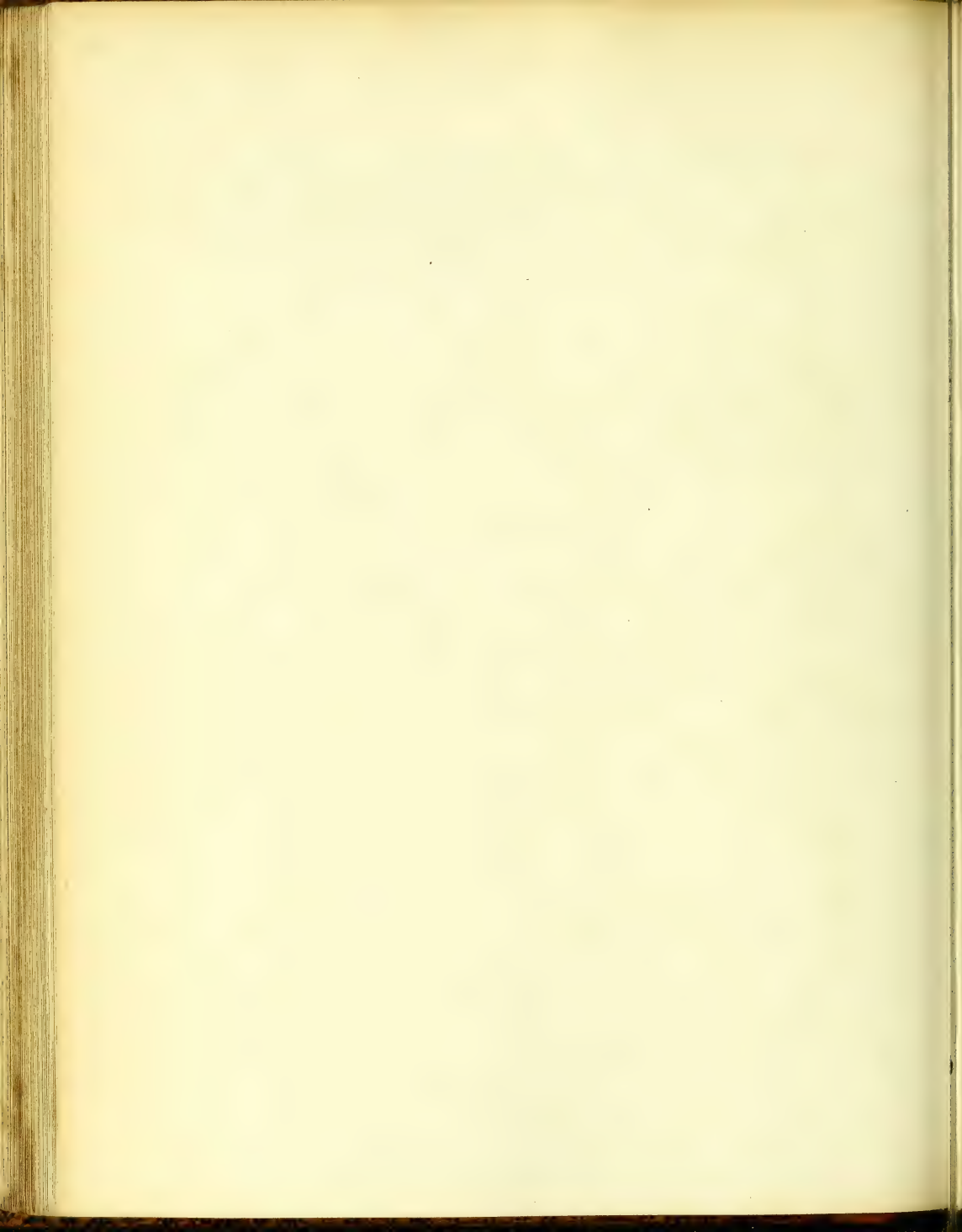
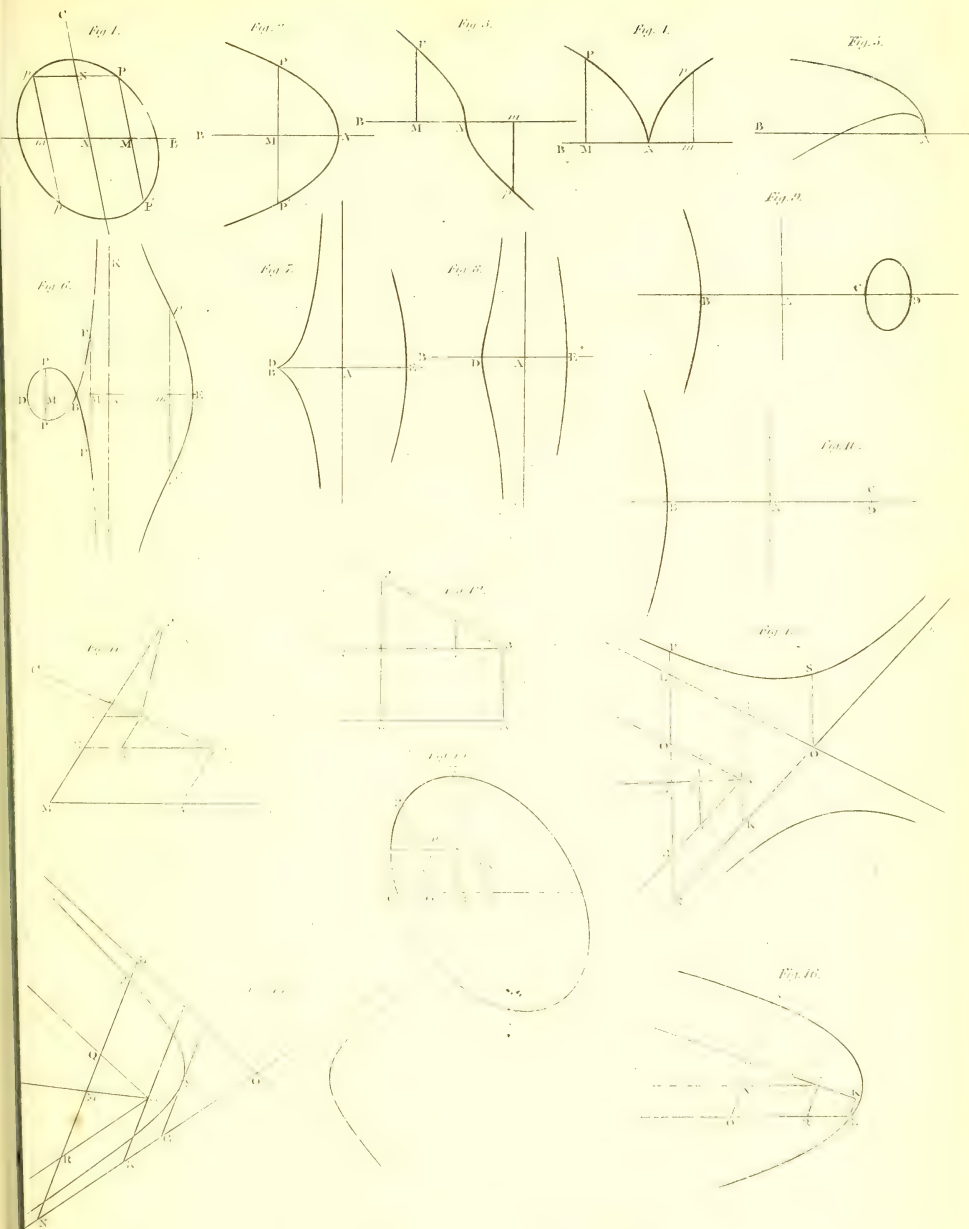
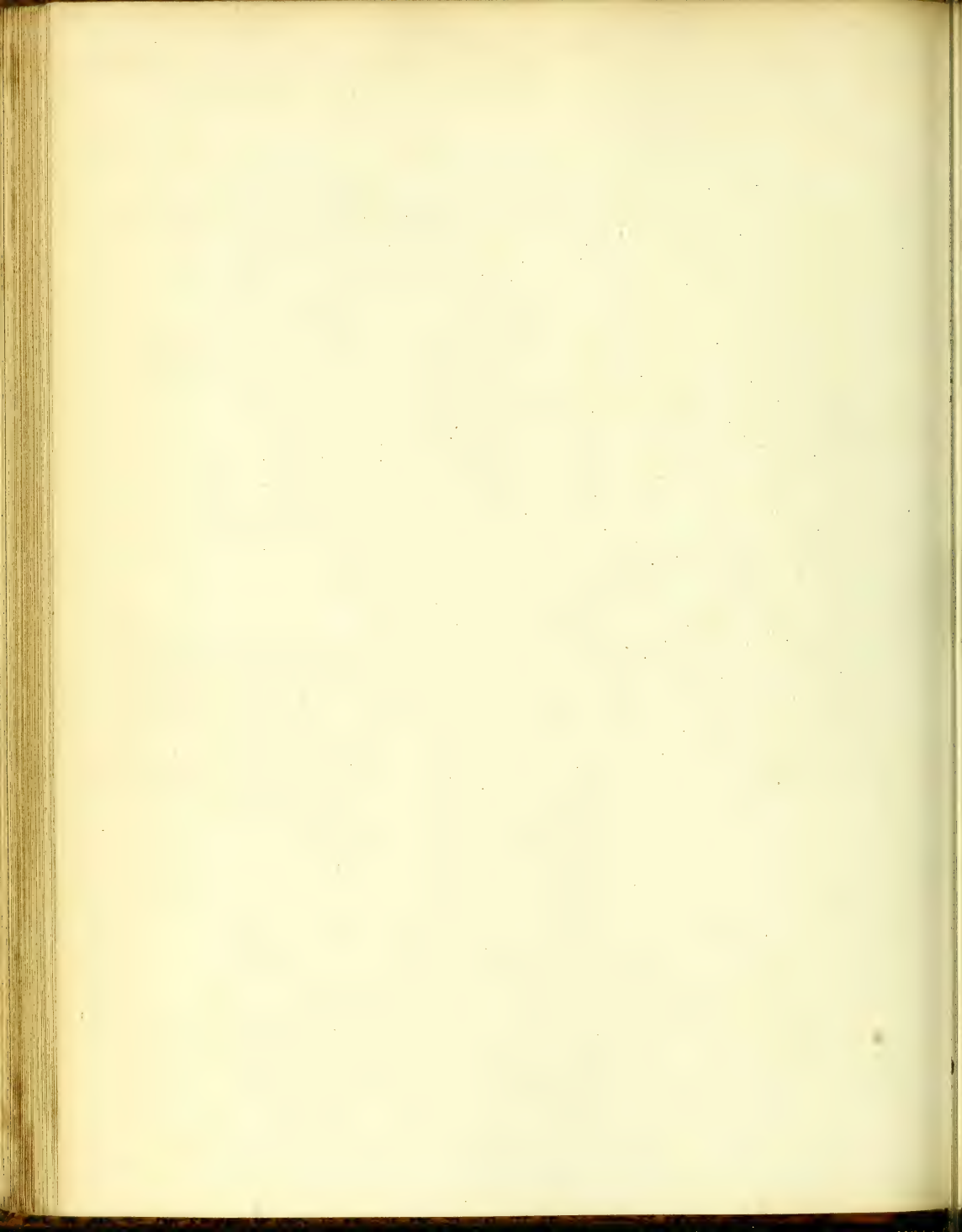


Fig. 13.



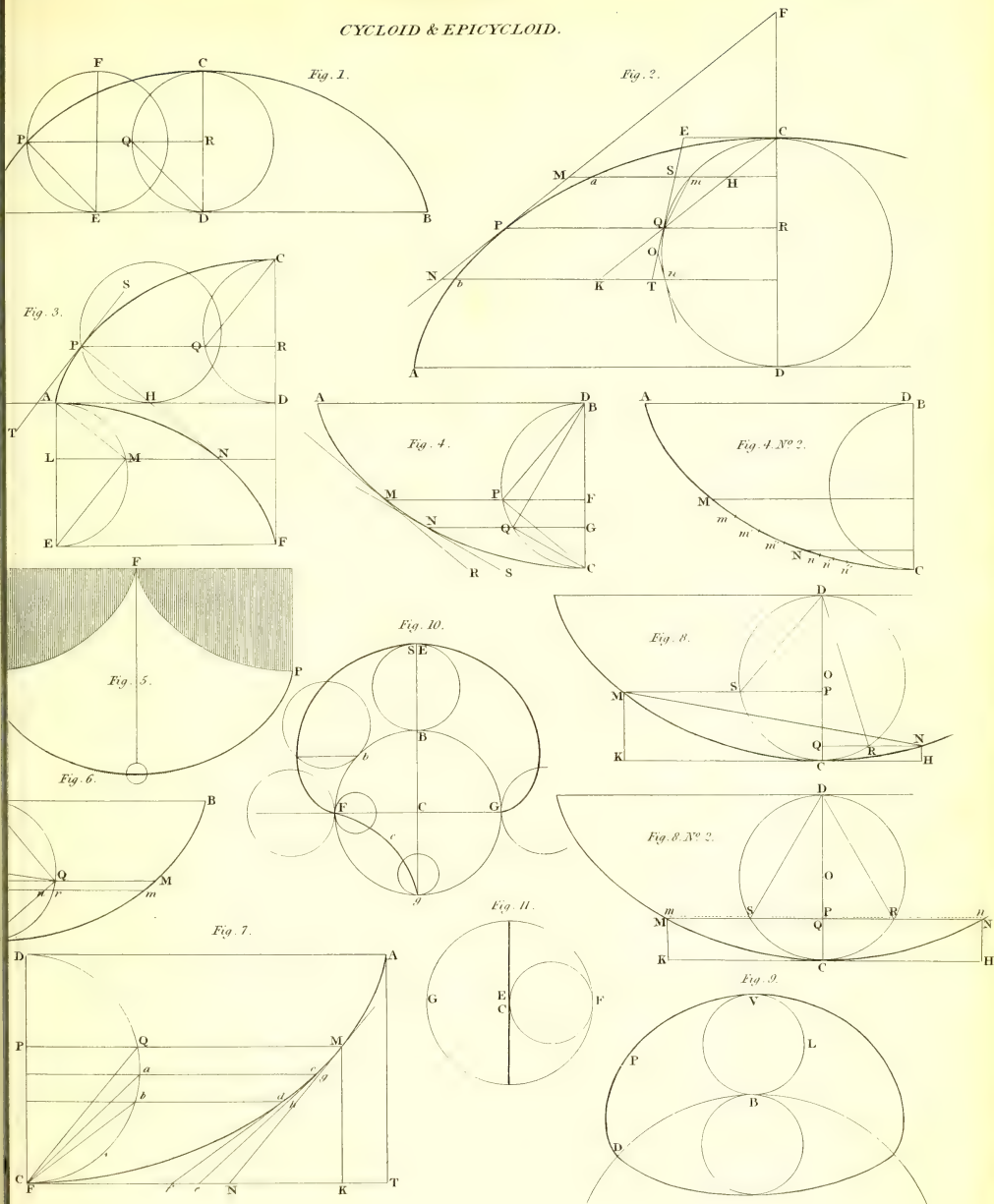


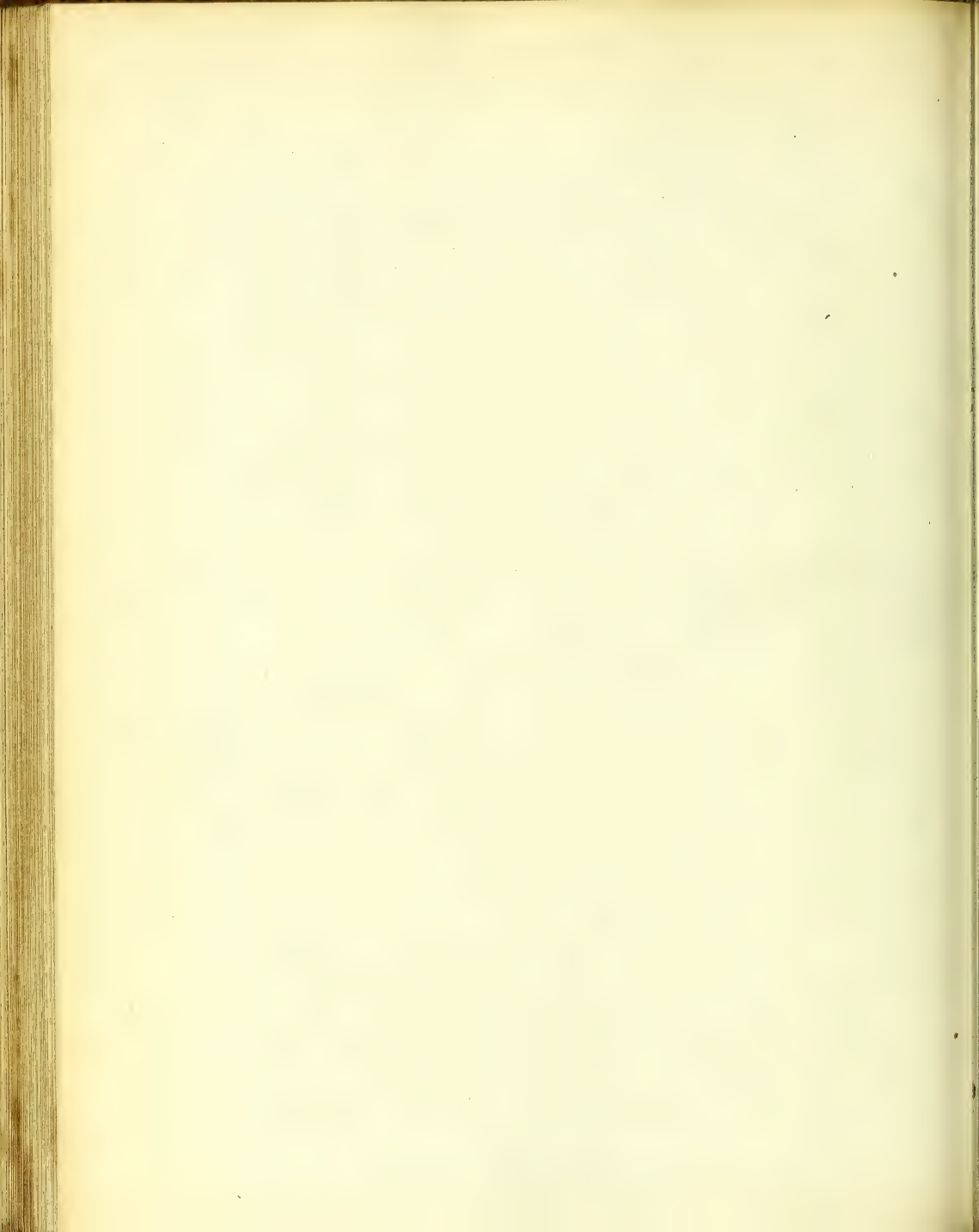




ANALYSIS. CYCLOID & EPICYCLOID.

PLATE V





ANALYSIS.

EVOLUTE.

PLATE V, revised
as PL. I.

Fig. 1.

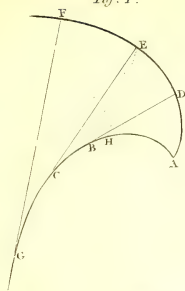


Fig. 2.

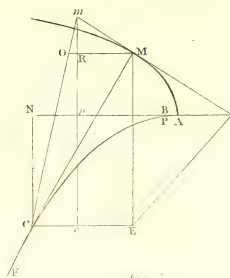


Fig. 3.

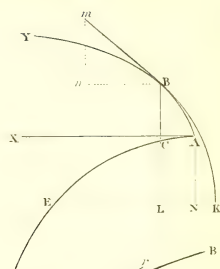


Fig. 4.

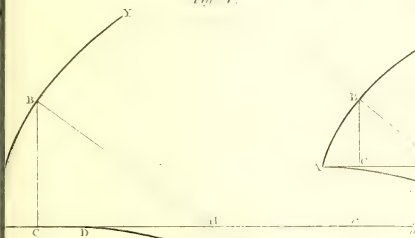


Fig. 5.

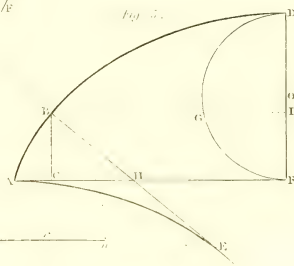


Fig. 6.

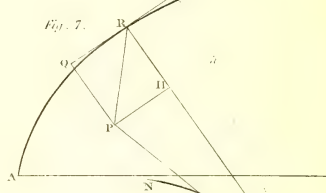


Fig. 7.

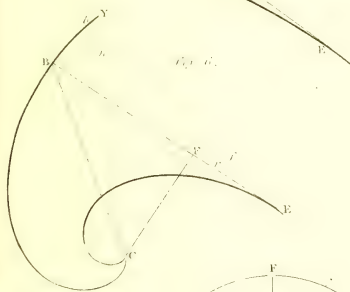


Fig. 8.

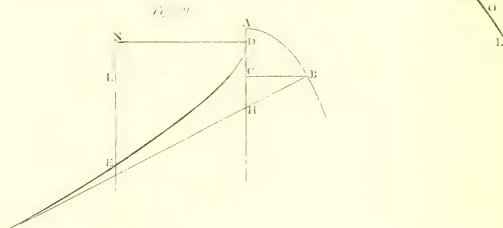


Fig. 9.

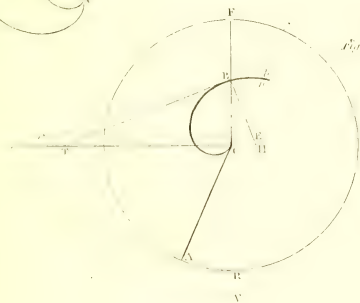
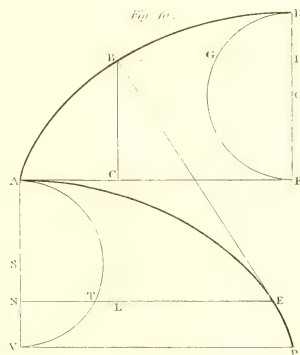


Fig. 10.



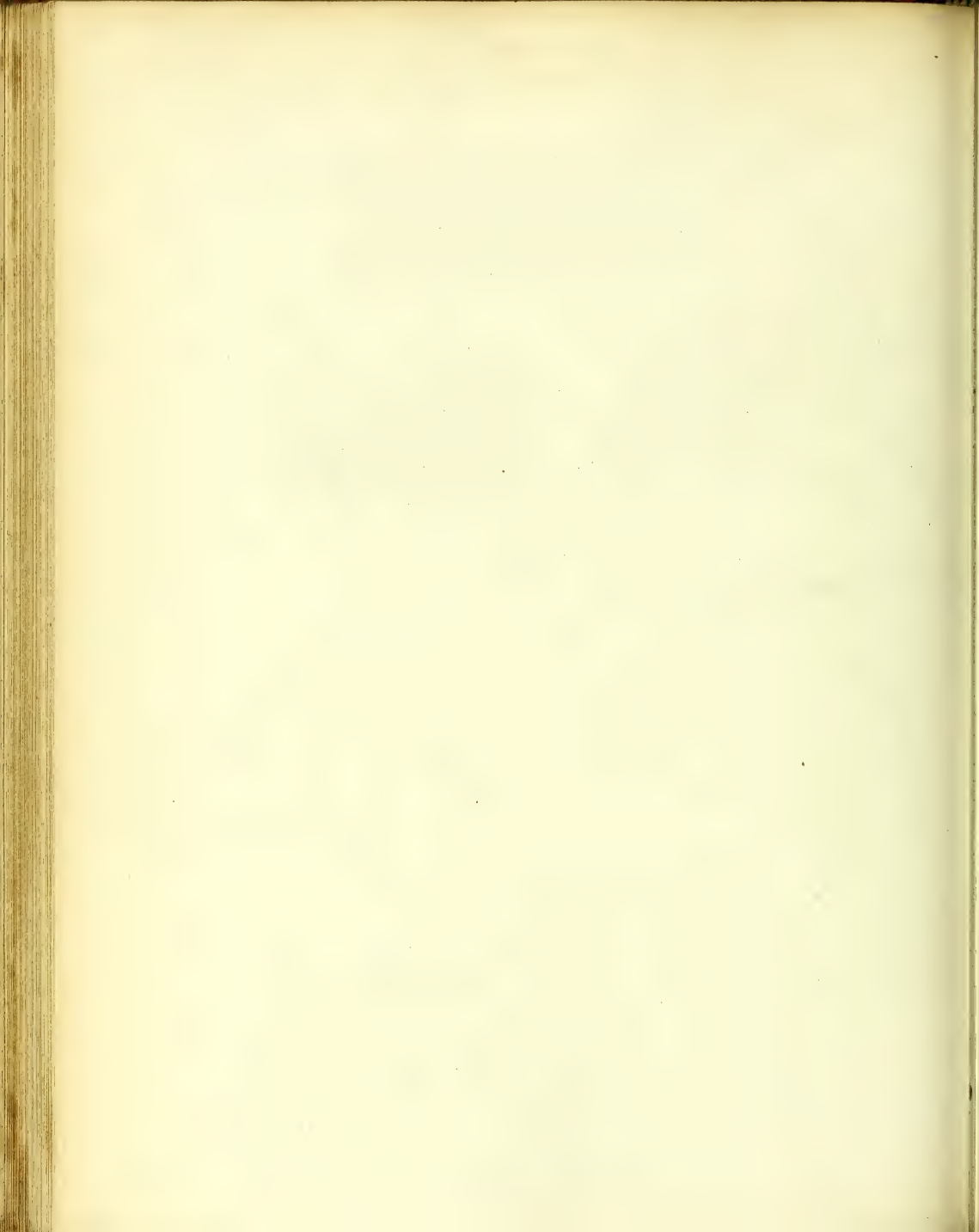


Fig. 1.

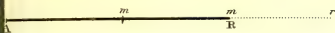


Fig. 2.

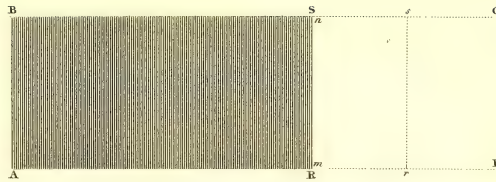


Fig. 3.

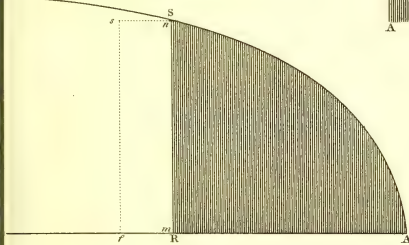
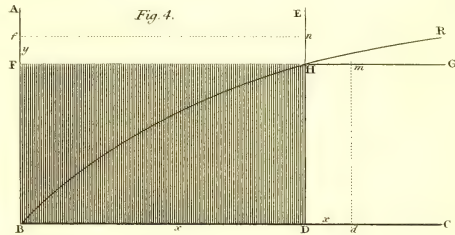


Fig. 4.



ANALYTIC FUNCTION.

Fig. 5.

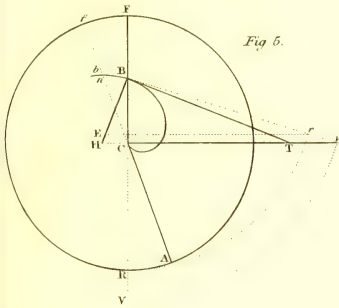


Fig. 6.

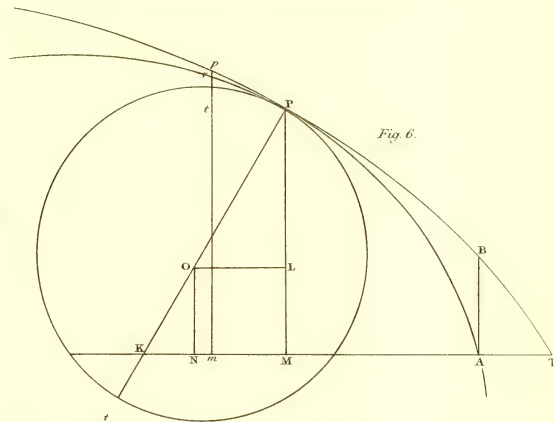


Fig. 7. N° 1.

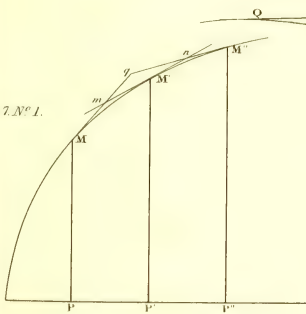


Fig. 7. N° 2.

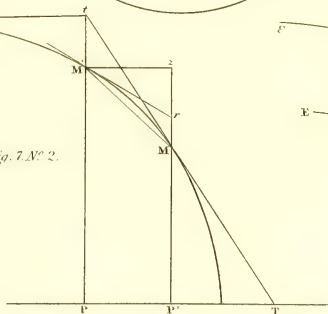
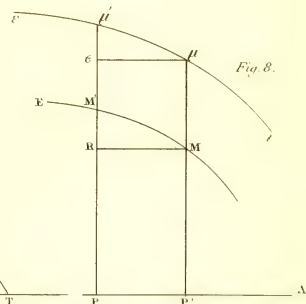


Fig. 8.



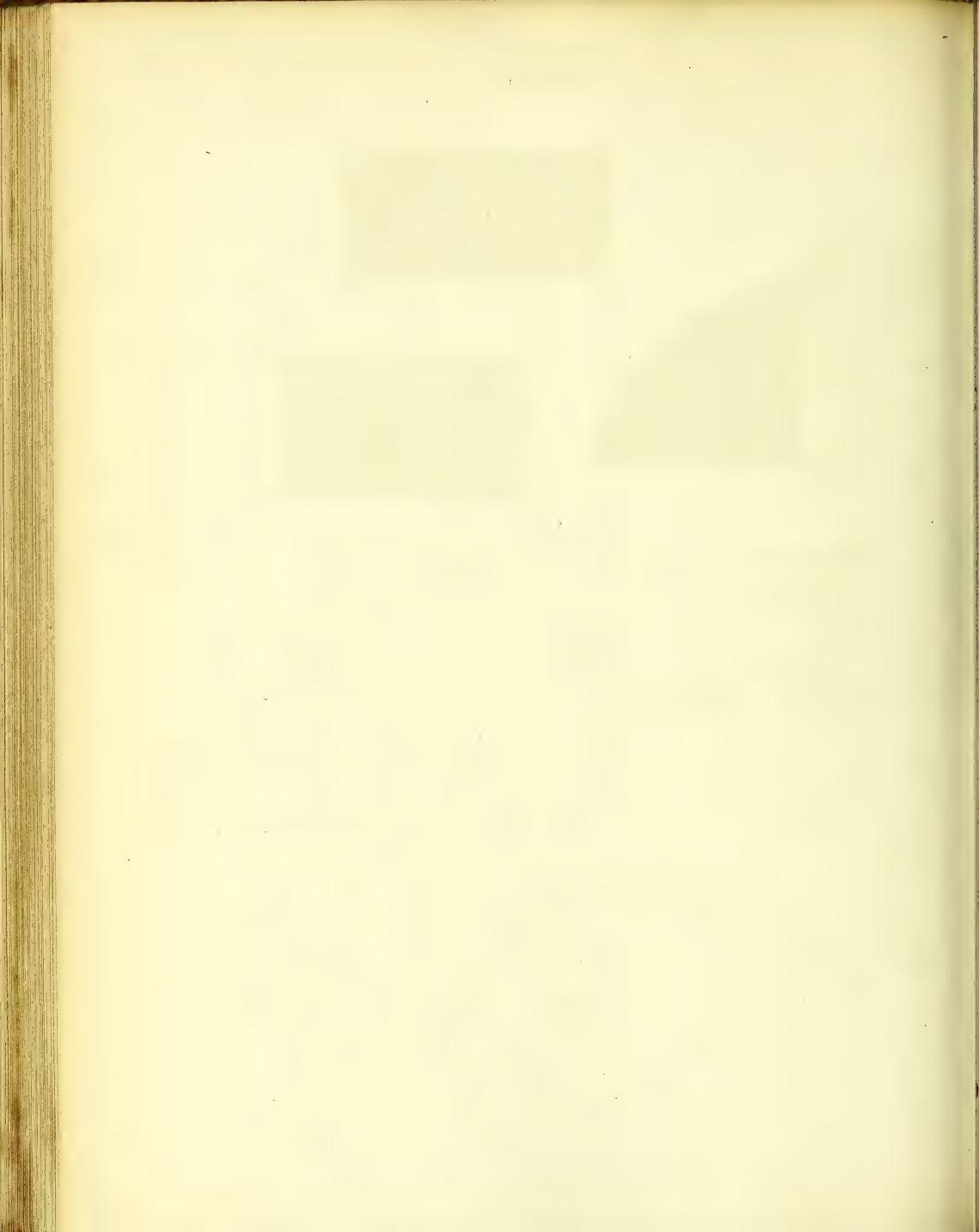


Fig. 1.

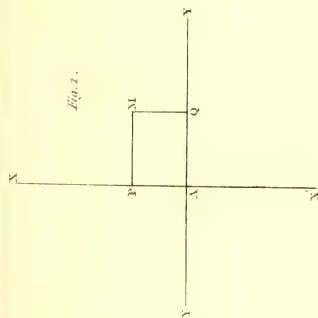


Fig. 3.

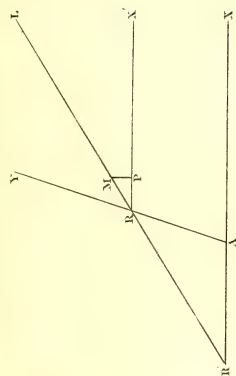
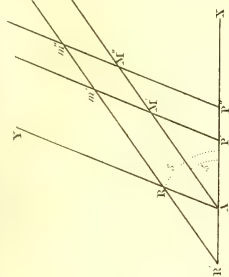
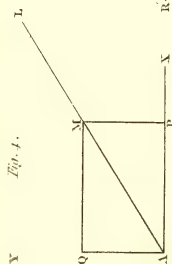


Fig. 2.



• f. 117.



250

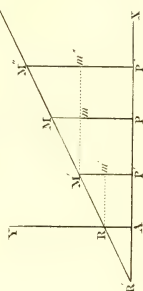
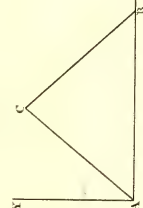


Fig. 6.



§ 7.

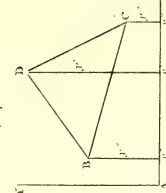
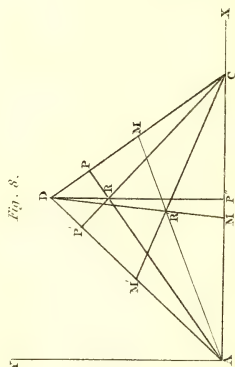
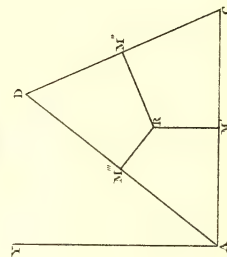


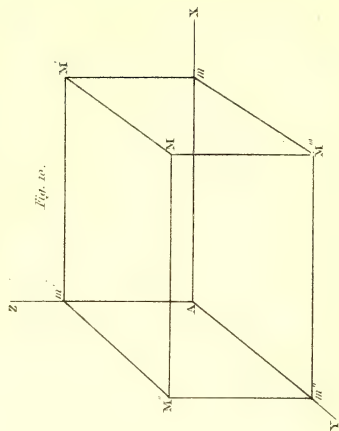
Fig. 8.



U. M. J.



Ug. 10.



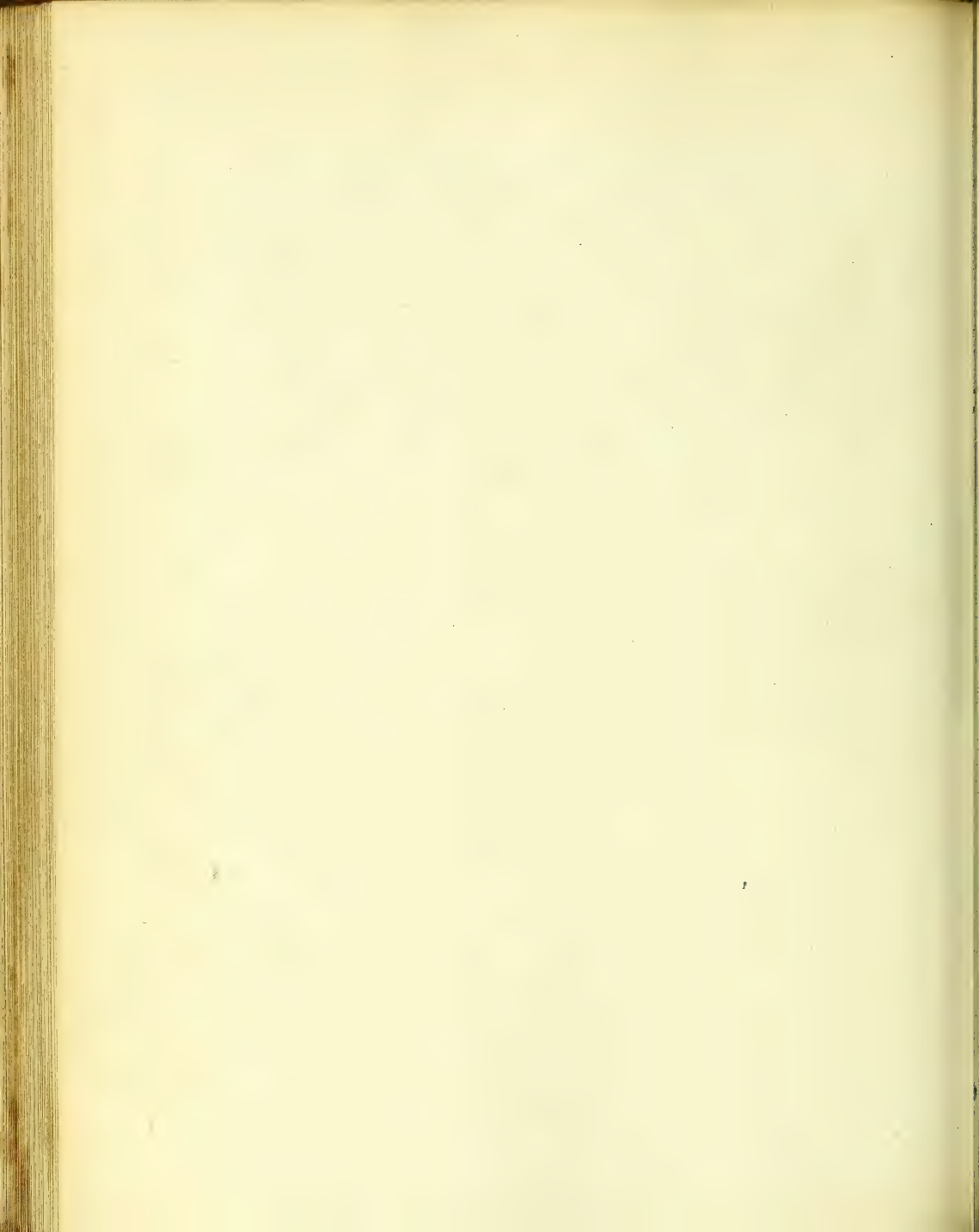


Fig. 1.

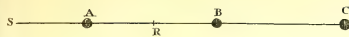


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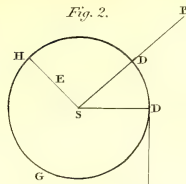


Fig. 3. N° 1.

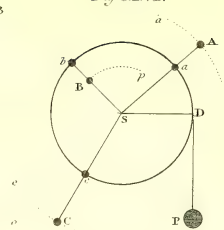
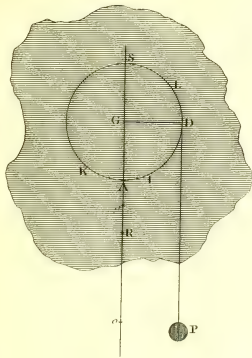


Fig. 4.



Cor. 4. to Fig. 3. N° 2.

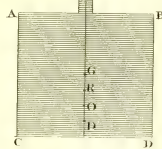


Fig. 3. N° 2.

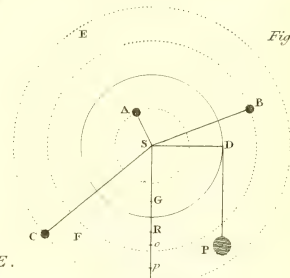
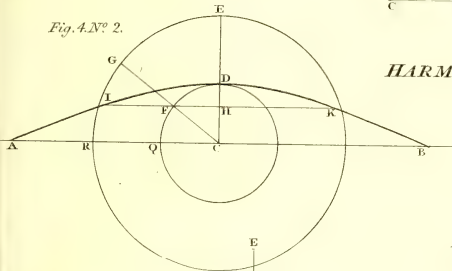


Fig. 4. N° 2.



HARMONIC CURVE.

Fig. 5.

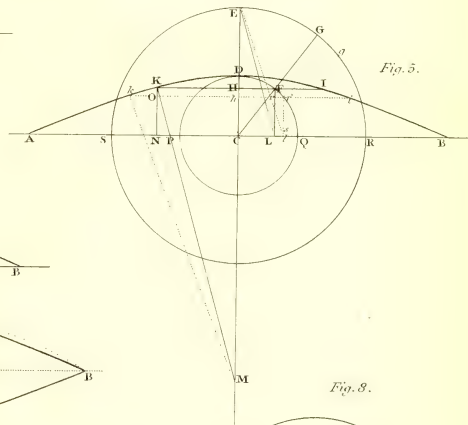


Fig. 8.

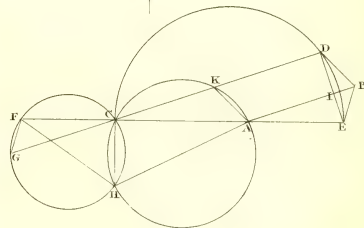


Fig. 7.

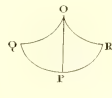
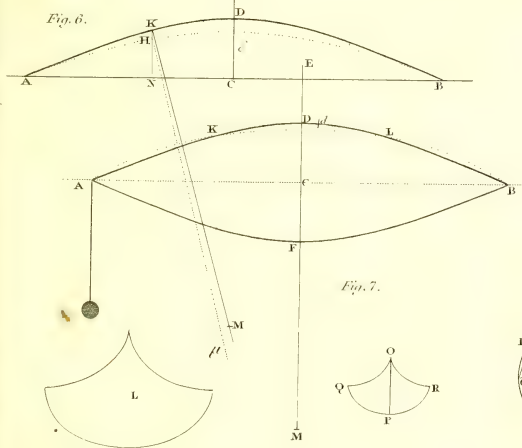
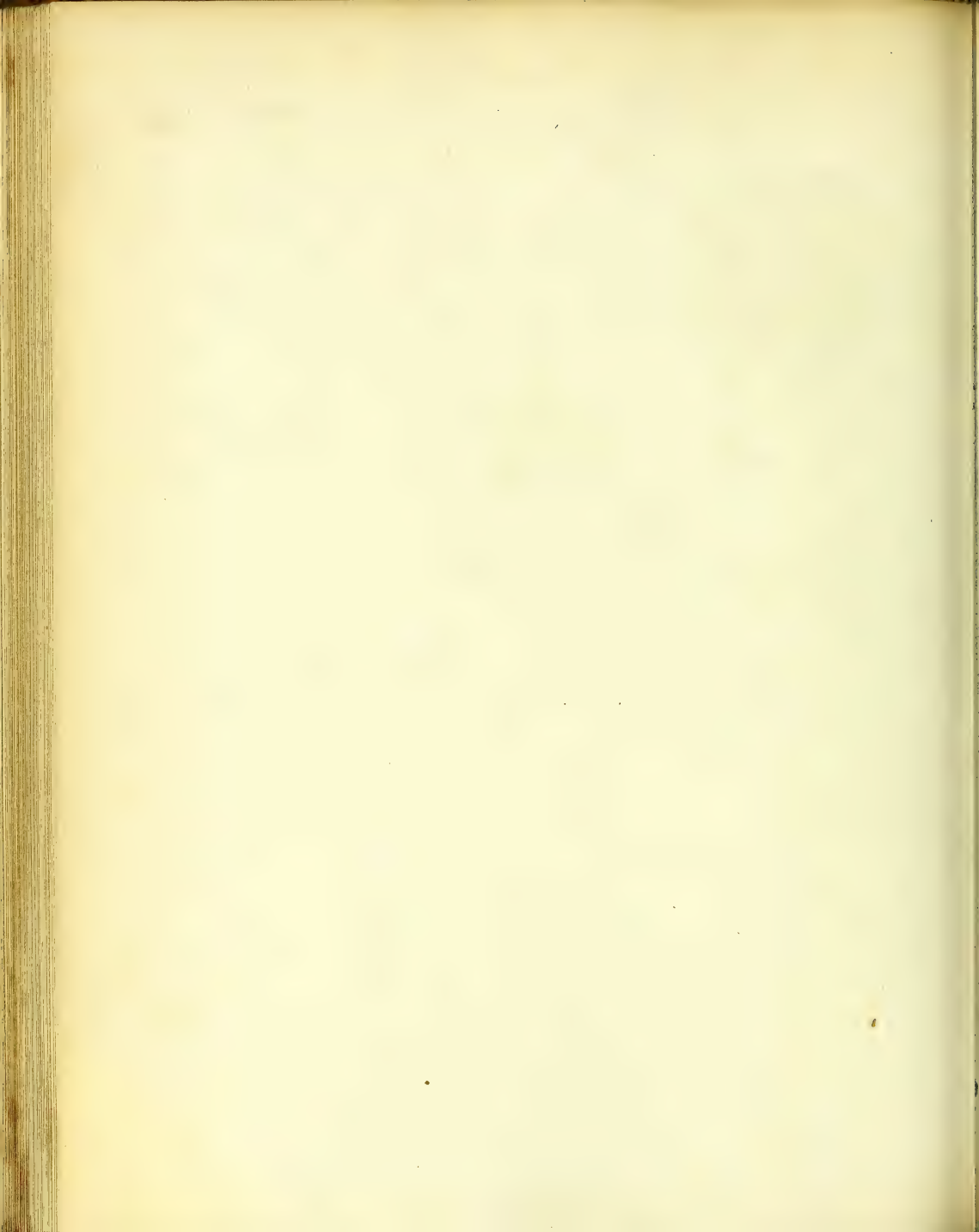


Fig. 6.

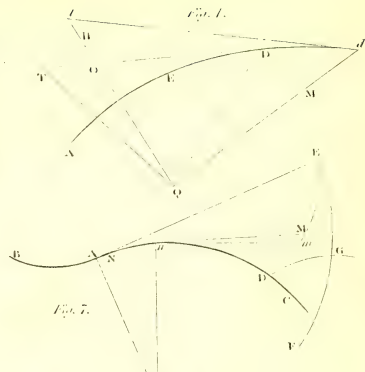
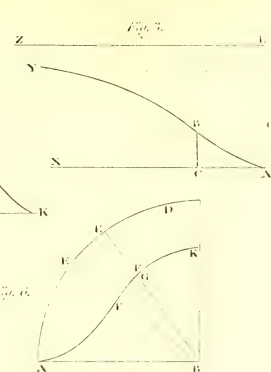
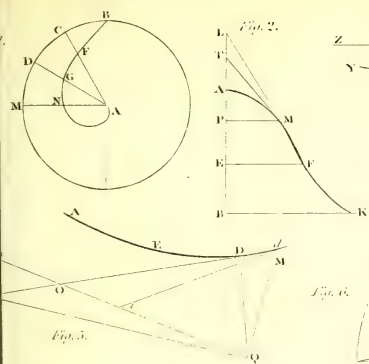




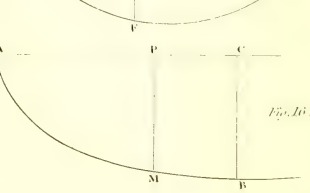
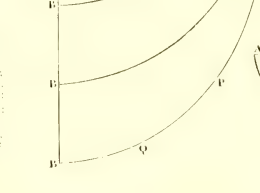
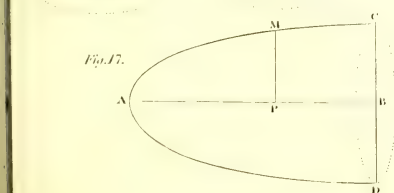
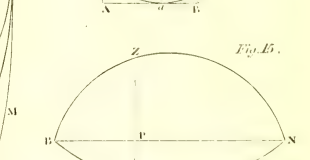
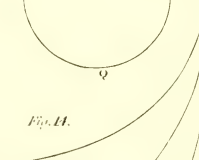
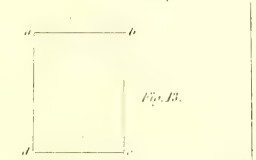
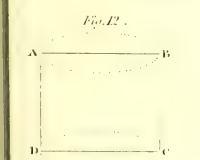
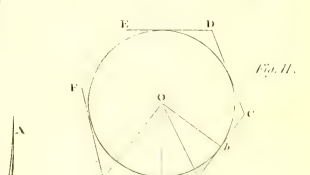
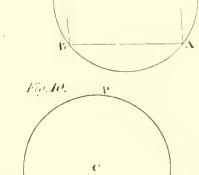
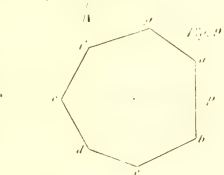
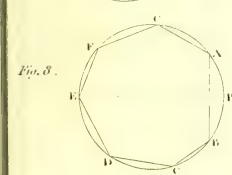
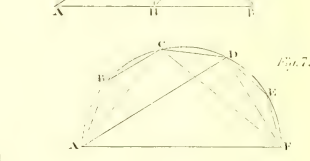
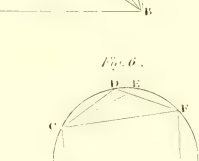
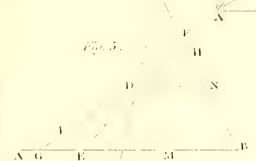
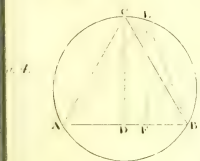
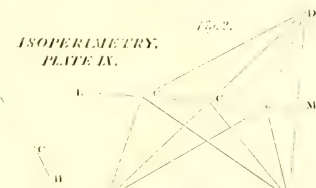
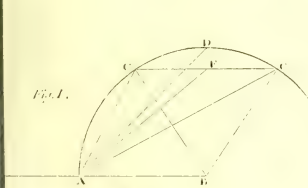
ANALYSIS. INFLECTION.

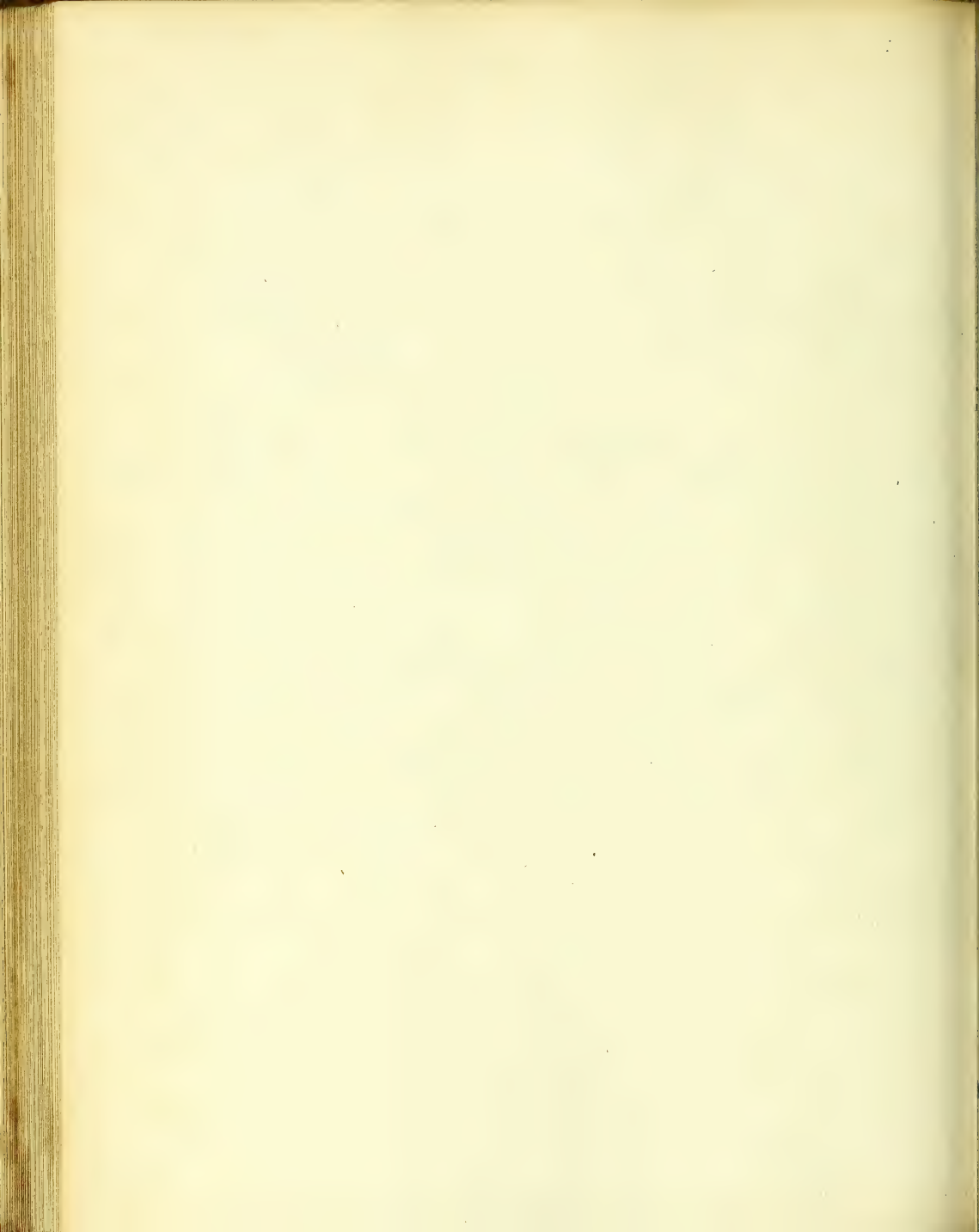
PLATE IX.

HELICOID.

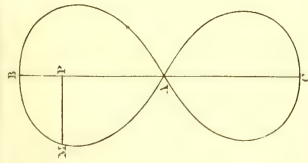


ISOPERIMETRY. PLATE IX.

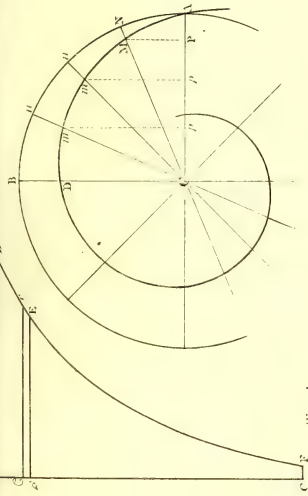




LEMNISCATE.



LOGISTIC SPIRAL.



LOGISTIC CURVE.

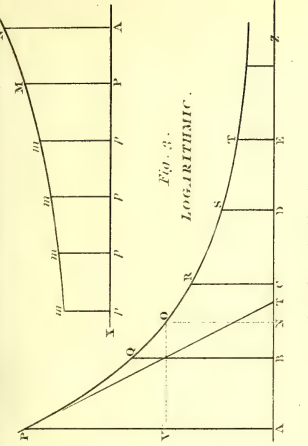
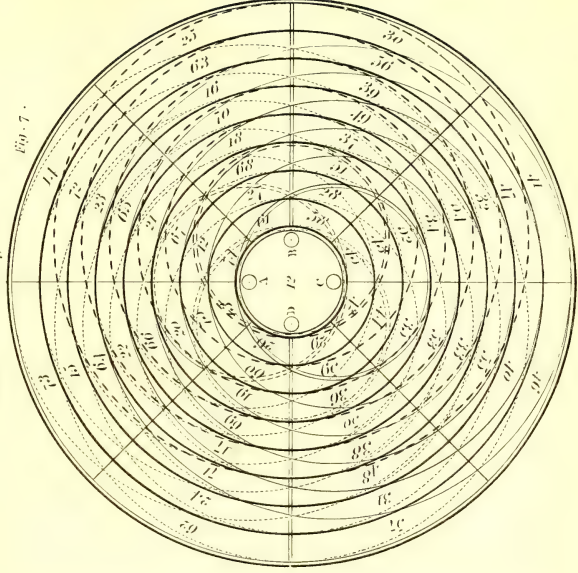


Fig. 3.

LOGARITHMIC.

MAGIC Circle of Circles.



MAGIC Square of Squares.

200	217	232	249	6	25	40	57	74	89	104	121	136	153	168	184
38	39	96	7	250	221	238	969	1806	178	451	435	422	103	90	71
198	219	230	231	6	27	28	29	70	30	182	123	434	155	166	187
60	37	28	5	262	289	280	487	1831	1783	178	183	124	104	92	69
201	216	233	238	9	29	41	56	73	88	105	122	137	152	160	181
55	42	29	60	247	244	245	292	488	179	478	179	180	186	187	71
203	214	235	246	4	22	43	54	75	86	107	128	139	150	174	182
26	44	29	42	245	243	244	291	484	179	479	180	187	188	185	74
99	25	27	24	23	26	25	27	28	29	30	31	32	33	34	35
204	215	236	247	1	23	44	55	76	87	108	129	140	151	162	173
97	26	29	25	25	26	47	50	79	82	104	125	146	167	188	189
68	47	36	24	209	208	177	176	145	144	123	122	101	90	79	68
206	213	239	23	4	29	36	61	68	93	100	125	132	157	164	180
62	35	30	3	254	222	195	190	163	158	134	126	106	94	87	67
204	213	226	235	2	34	34	63	66	95	98	127	130	159	162	181
94	33	32	1	256	225	192	193	161	160	129	128	97	96	66	65

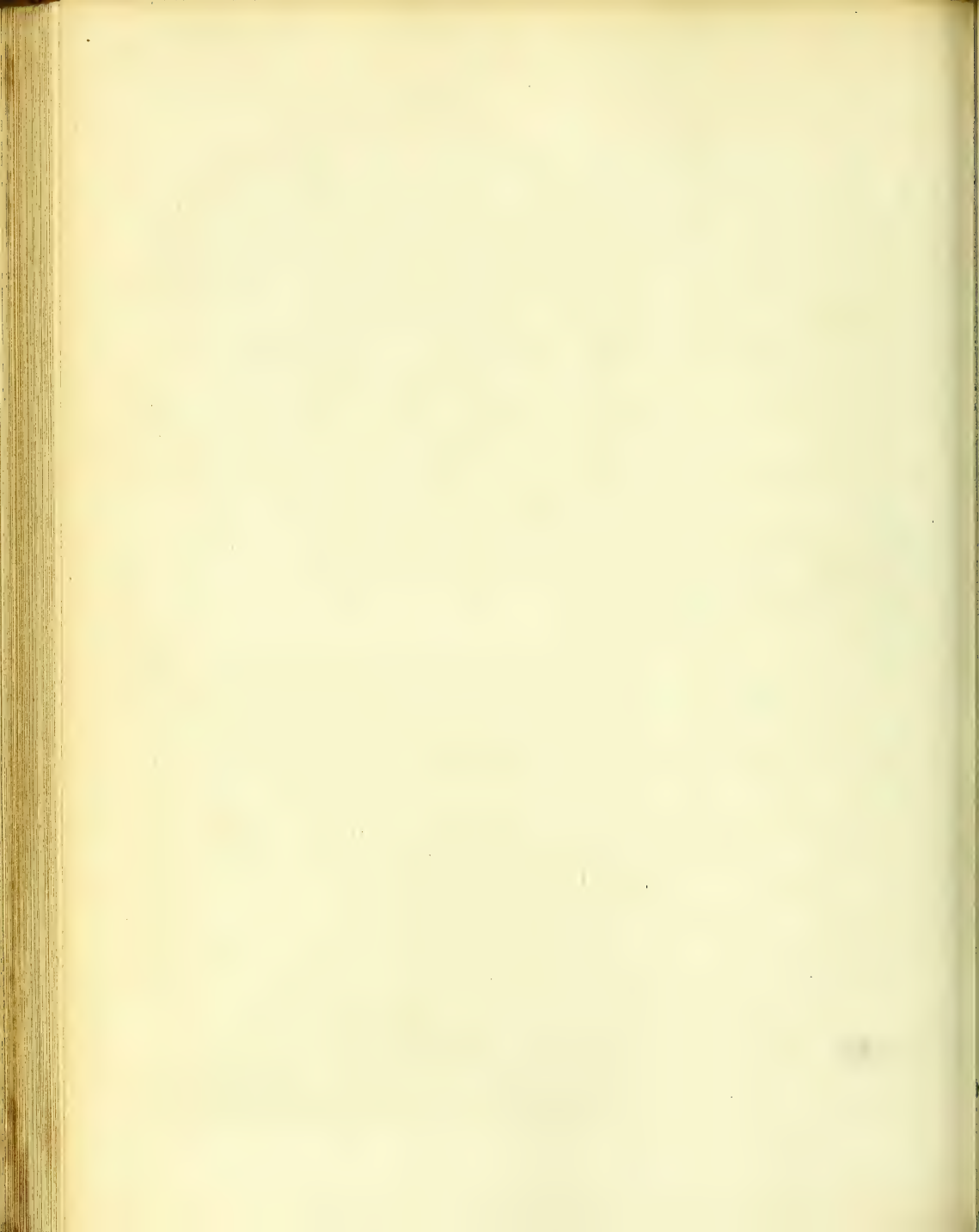


Fig. 5.

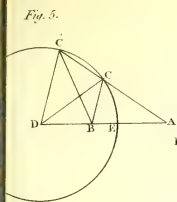


Fig. 4.

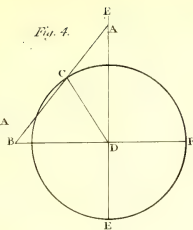


Fig. 3.

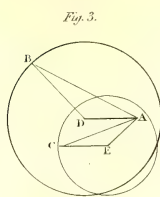


Fig. 2.

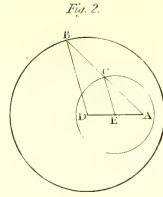


Fig. 1.

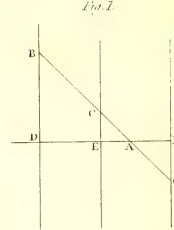


Fig. 9.

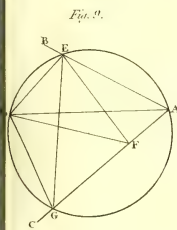


Fig. 8.

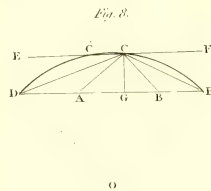


Fig. 7.

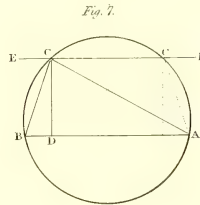


Fig. 6.

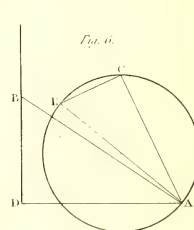


Fig. 11.

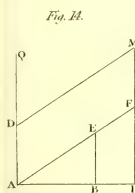


Fig. 13.

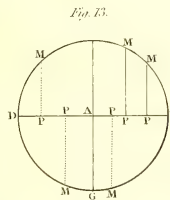


Fig. 12.

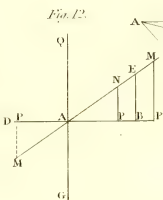


Fig. 10.

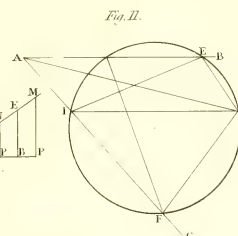


Fig. 14.

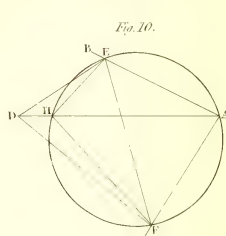


Fig. 16.

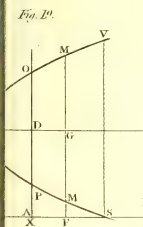


Fig. 18.

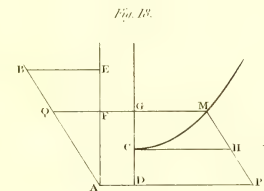


Fig. 17.

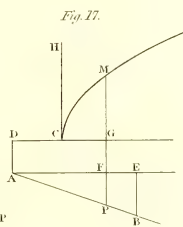


Fig. 19.

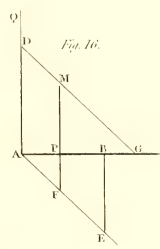


Fig. 15.

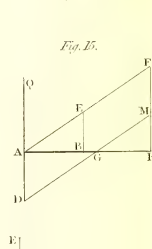


Fig. 23.

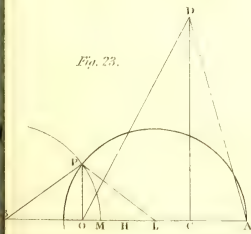


Fig. 22.

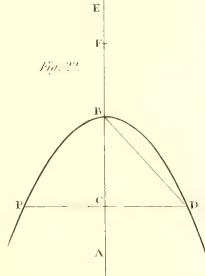


Fig. 21.

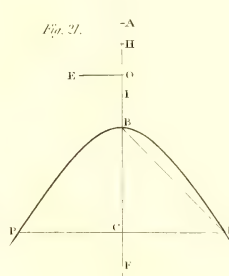
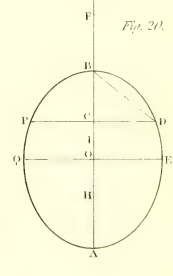


Fig. 20.



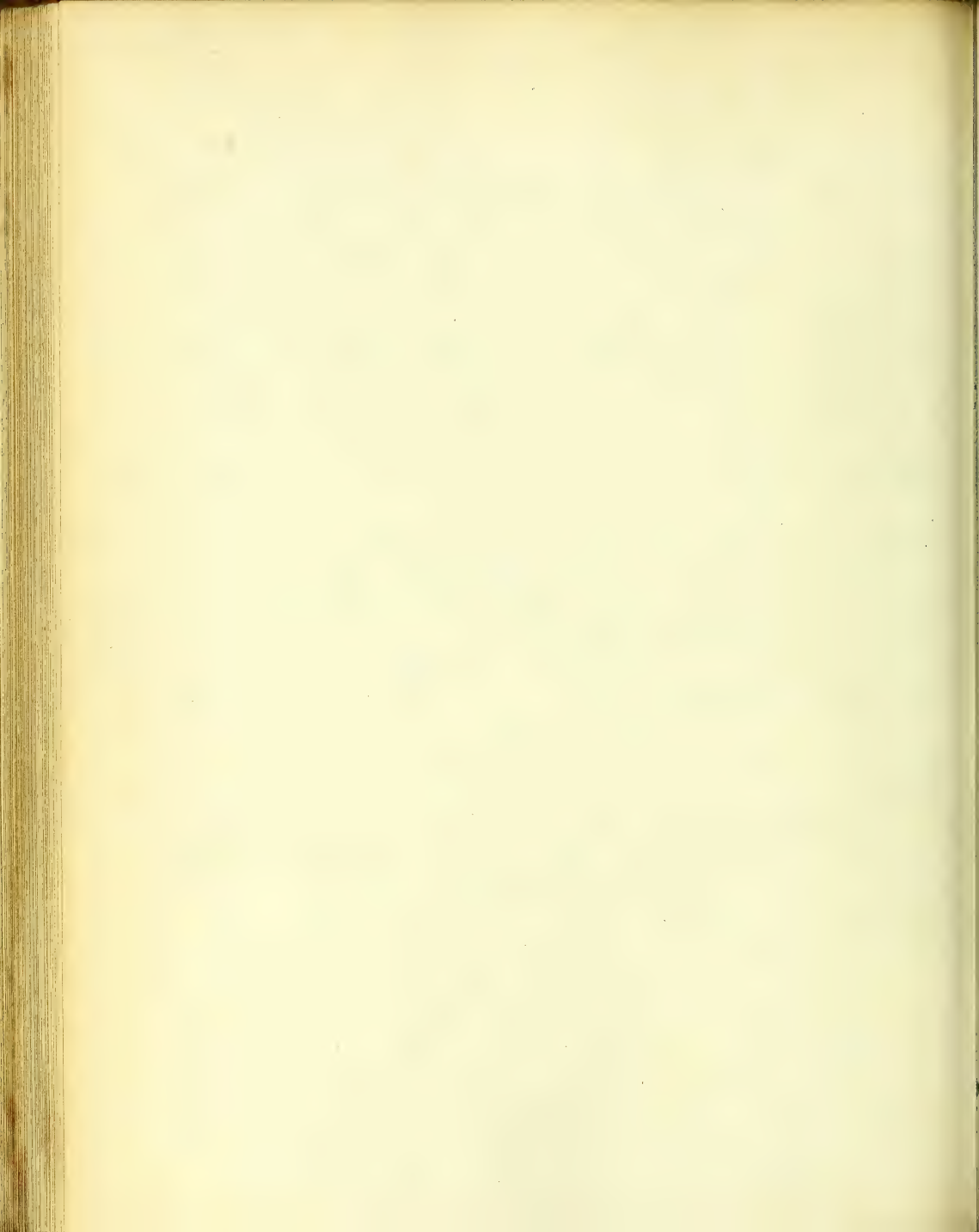


Fig. 4.

Analytic PARALLELOGRAM.

	A	D
x^4	$x^4 y$	$x^4 y^2$
x^3	$x^3 y$	$x^3 y^2$
x^2	$x^2 y$	$x^2 y^2$
x	$x y$	y^2
1	y	y^2

PARABOLIC Conus.

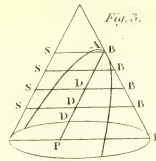


Fig. 3.

Fig. 2.

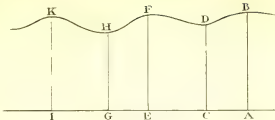
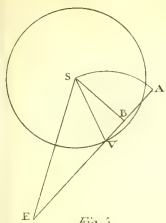


Fig. 1. MAXIMA and MINIMA.



QUADRATIC Equation.

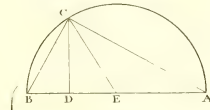


Fig. 6.

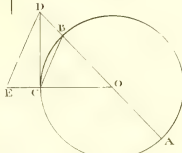


Fig. 7.

QUADRATRIX.

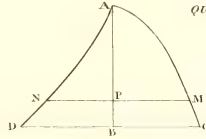
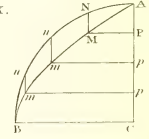
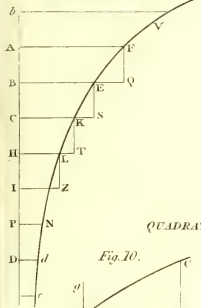


Fig. 9.



PROGRESSION.



QUADRATURE.

Fig. 10.

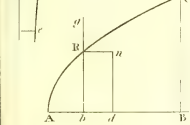


Fig. 11.

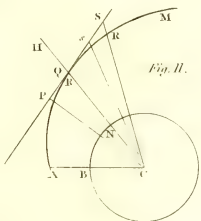


Fig. 12.

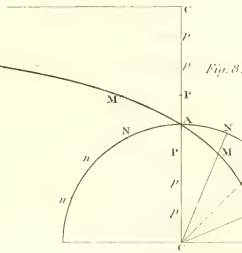


Fig. 12.

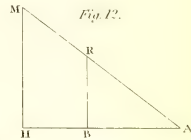


Fig. 15.

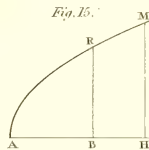


Fig. 16.

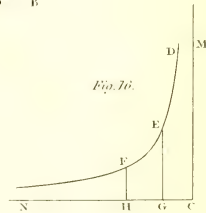


Fig. 13.

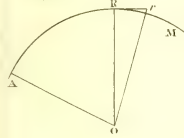


Fig. 14.

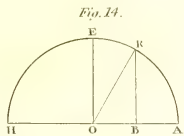


Fig. 18.



Fig. 17.

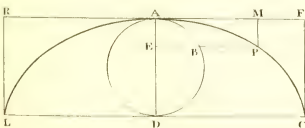


Fig. 19.

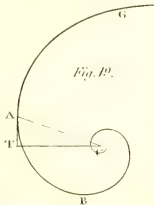
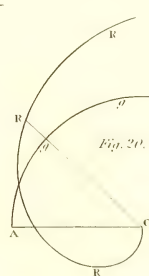


Fig. 20.



RATIO.

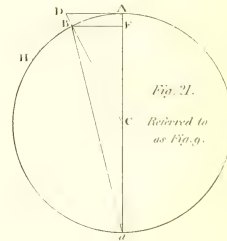
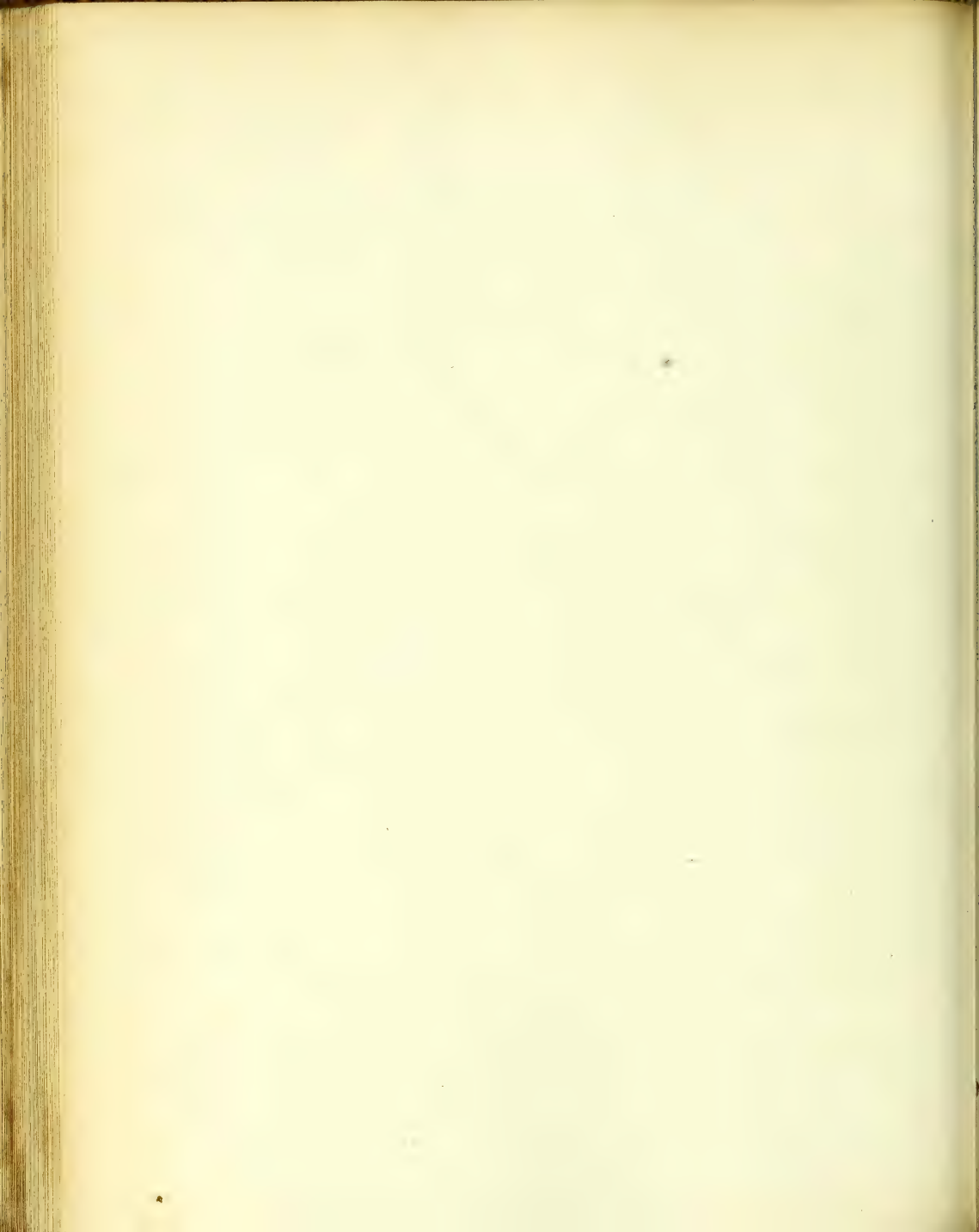


Fig. 21.

Referred to as Fig. 9.



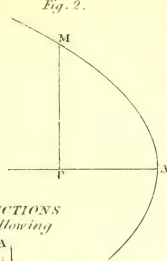


Fig. 3.

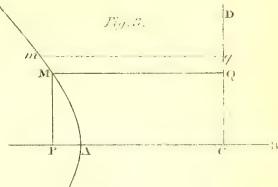
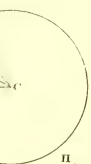
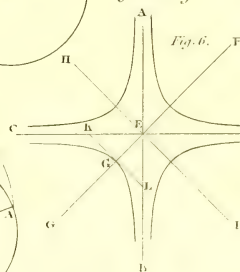


Fig. 1.
Nº 2.



*SECTIONS
following*

Fig. 6.



SOLIDITY

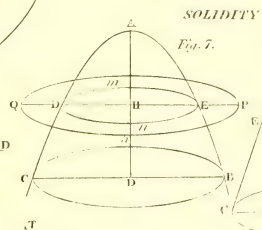


Fig. 8.

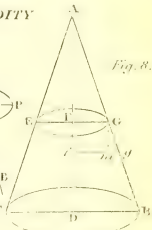


Fig. 1.

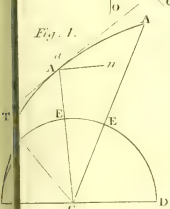


Fig. 5.

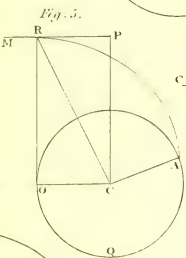


Fig. 9.

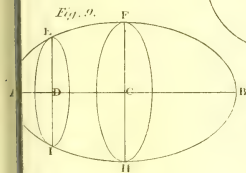


Fig. 100

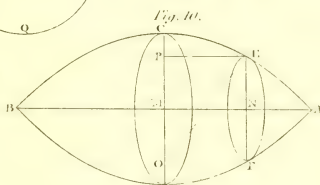


Fig. 13.

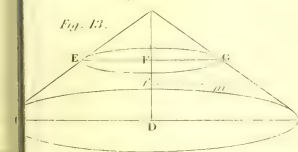
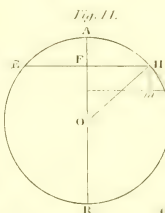
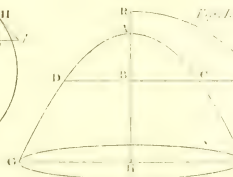


Fig. 11.



i. e. l.



TINGENT

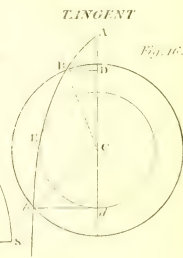


fig. 18.

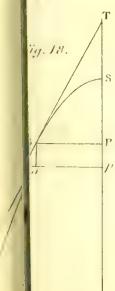


Fig. 22

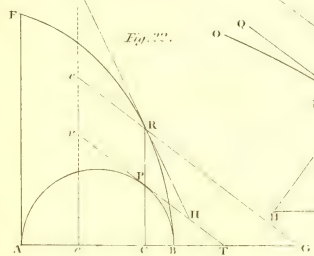


Fig. 19.

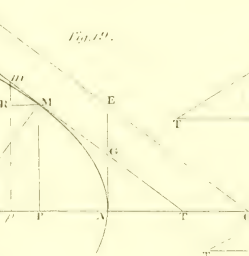


Fig. 20

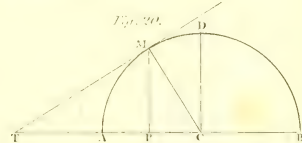
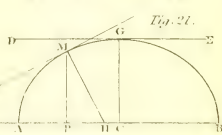
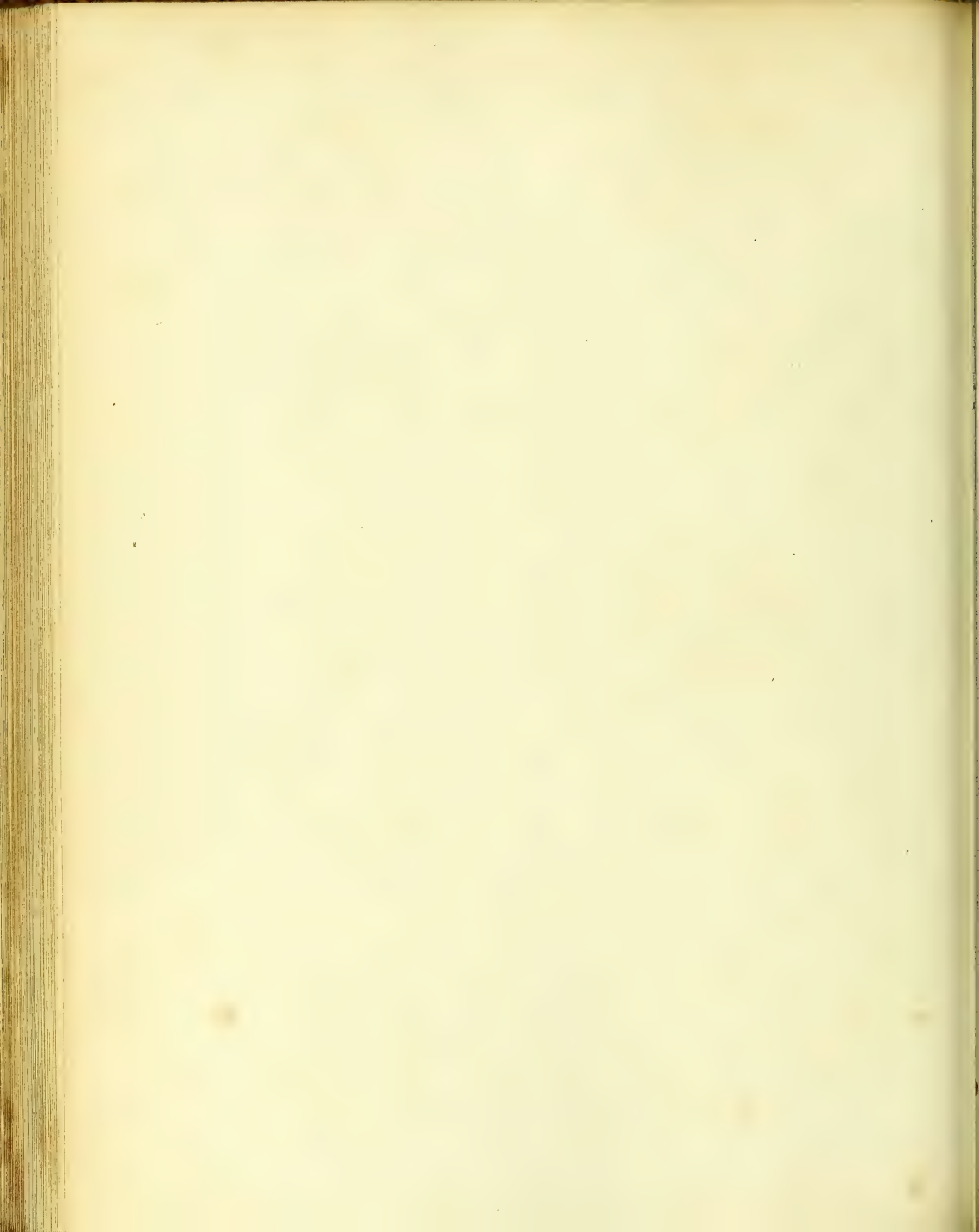


Fig. 24





ANATOMY.

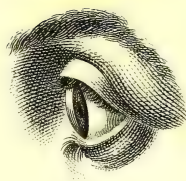
Organs of Sense.

Eye.

PLATE I.



FIG. I.



II



III



IV



V



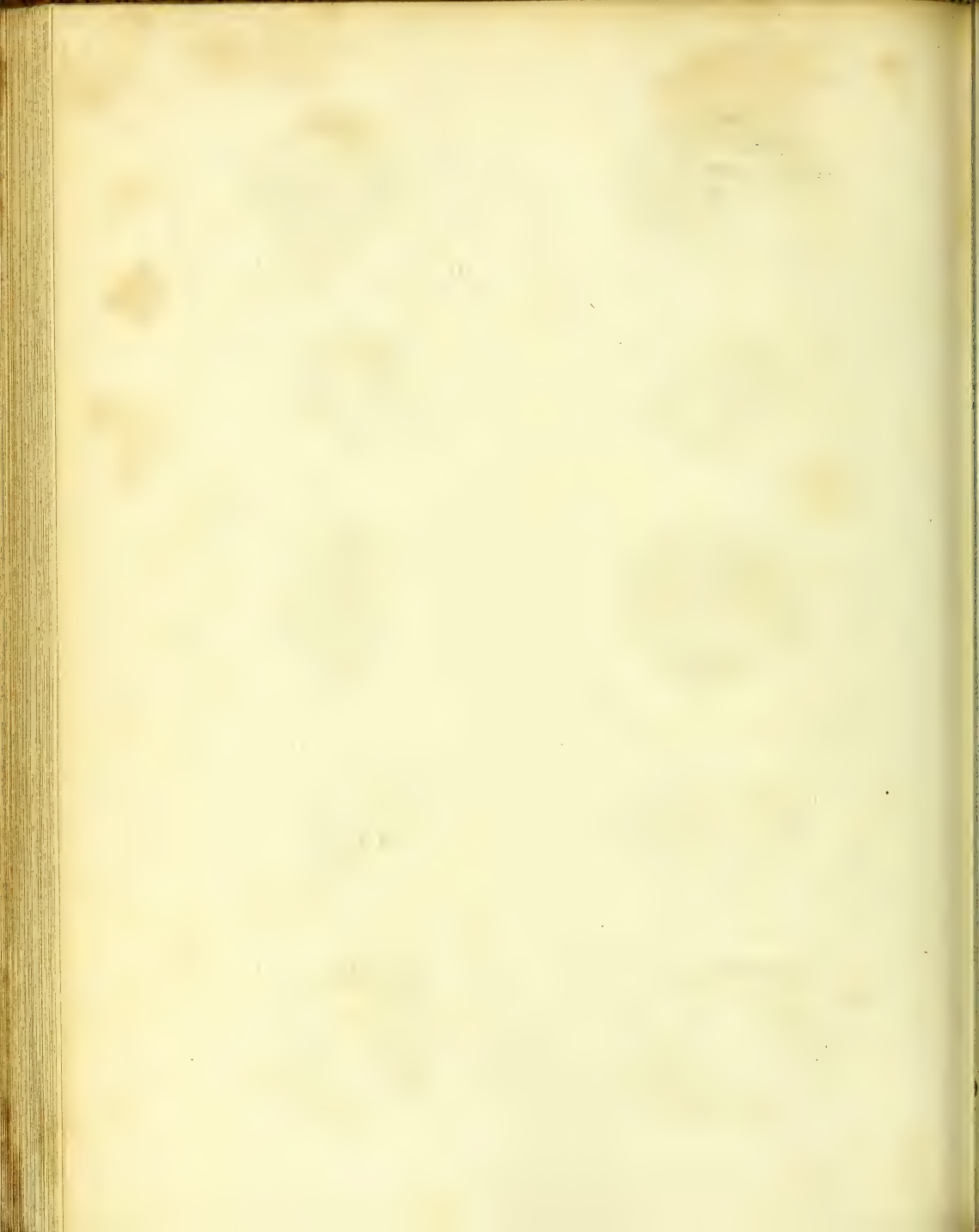


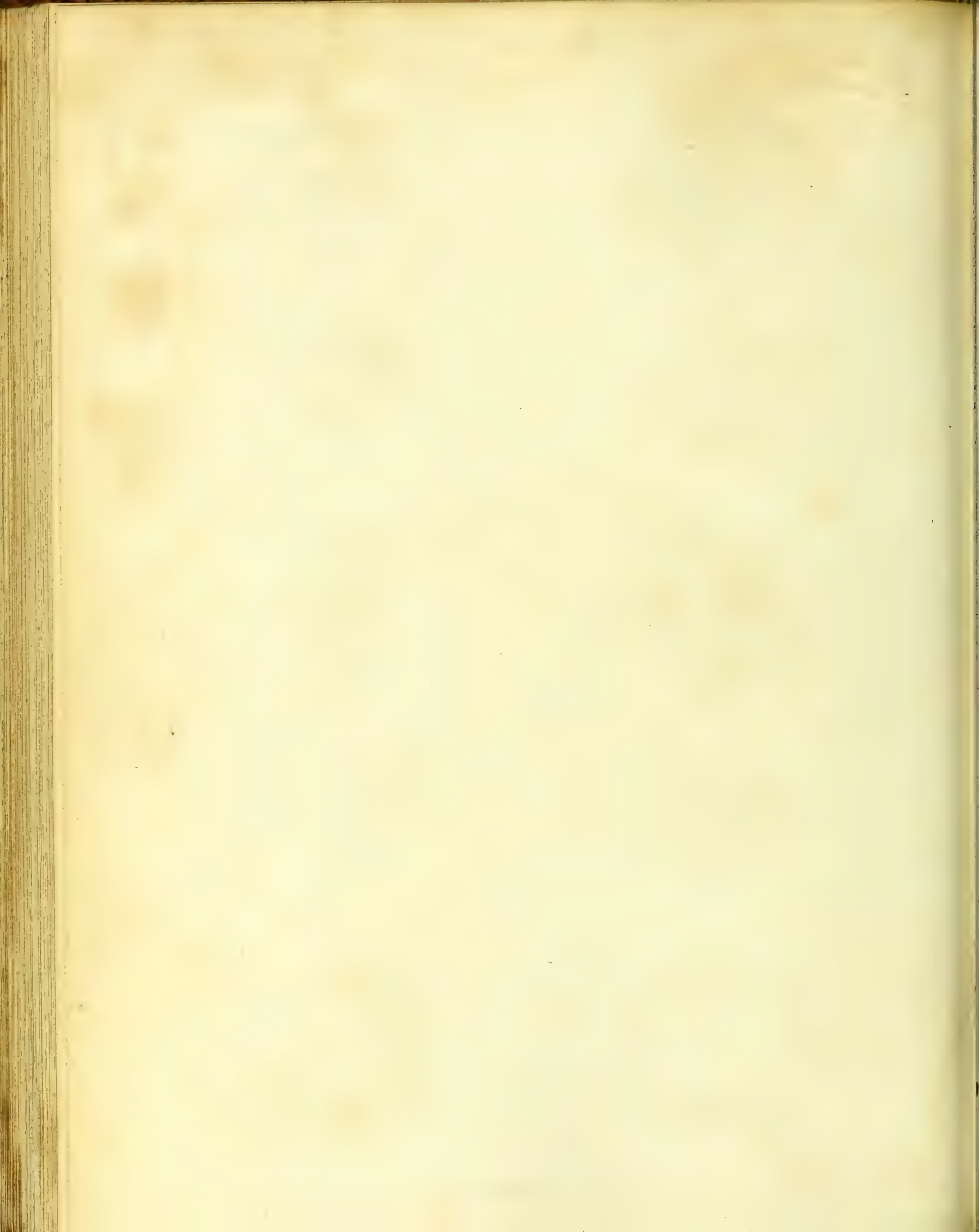
FIG. 1.

II

III

IV

V



Organs of Sense.

Eye.

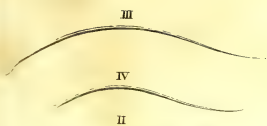
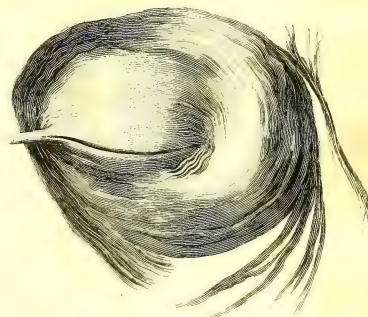
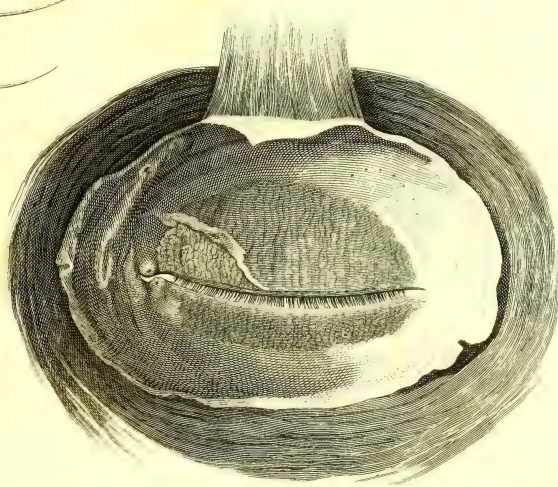


FIG. I.



VIII



VI

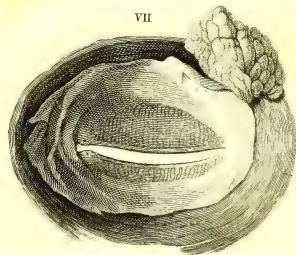


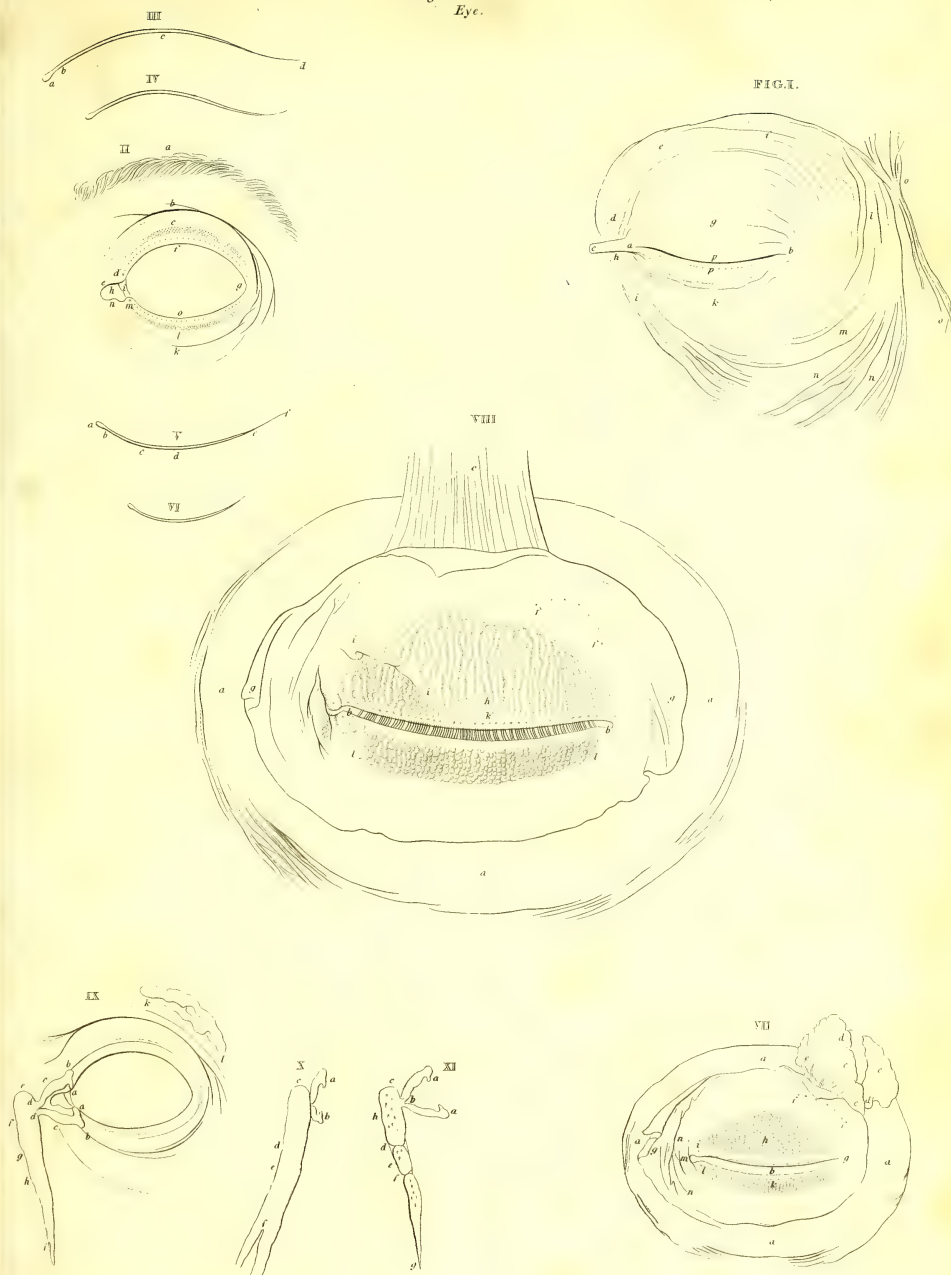
X

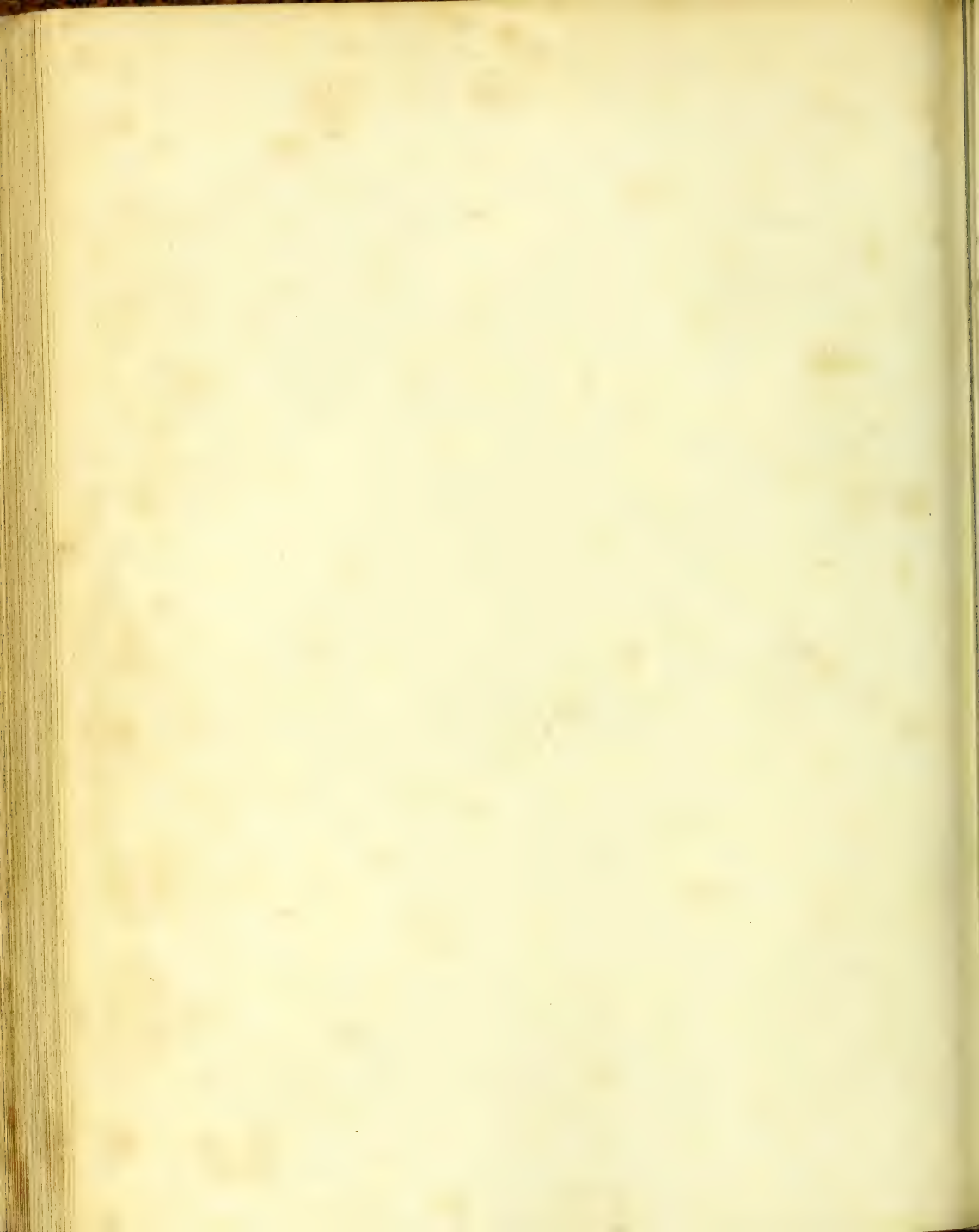
XI



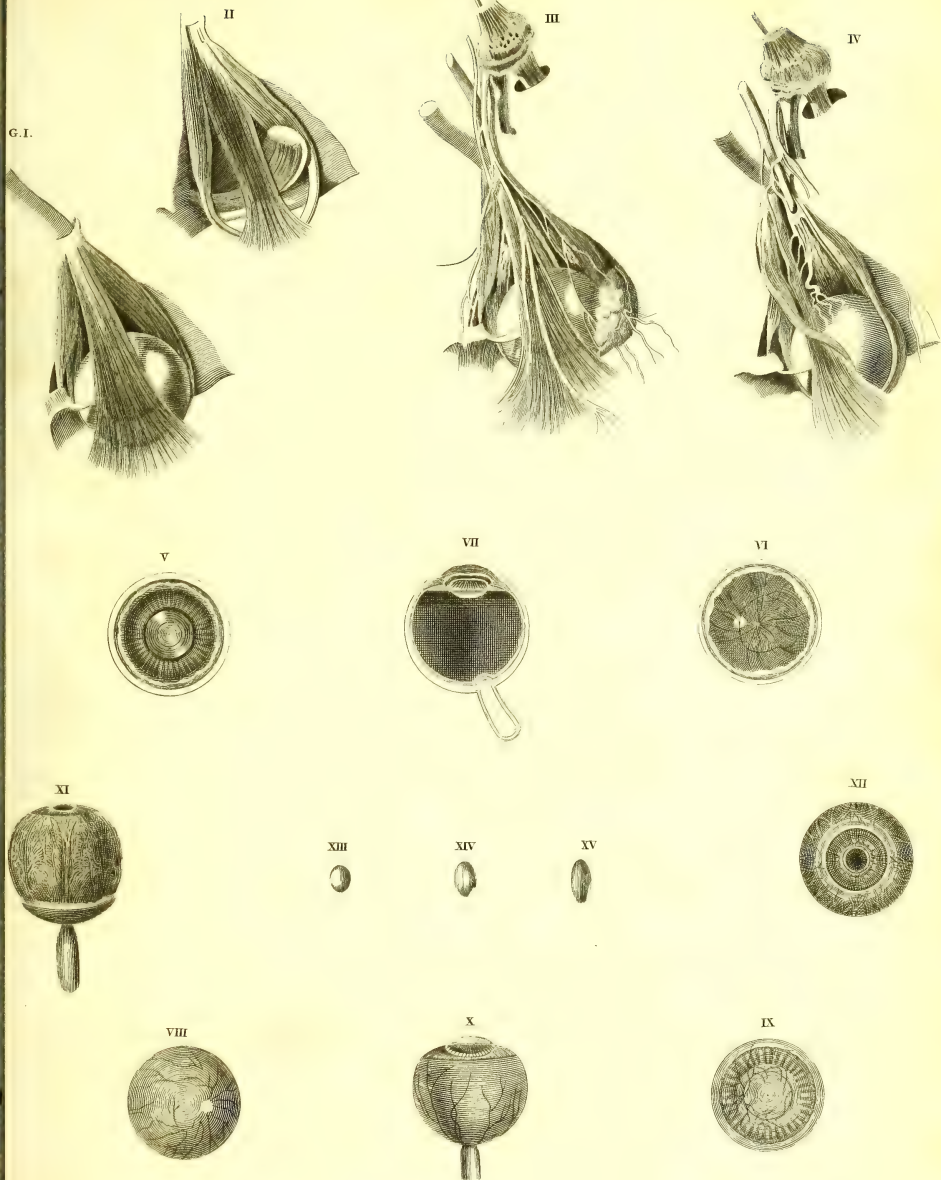
VII

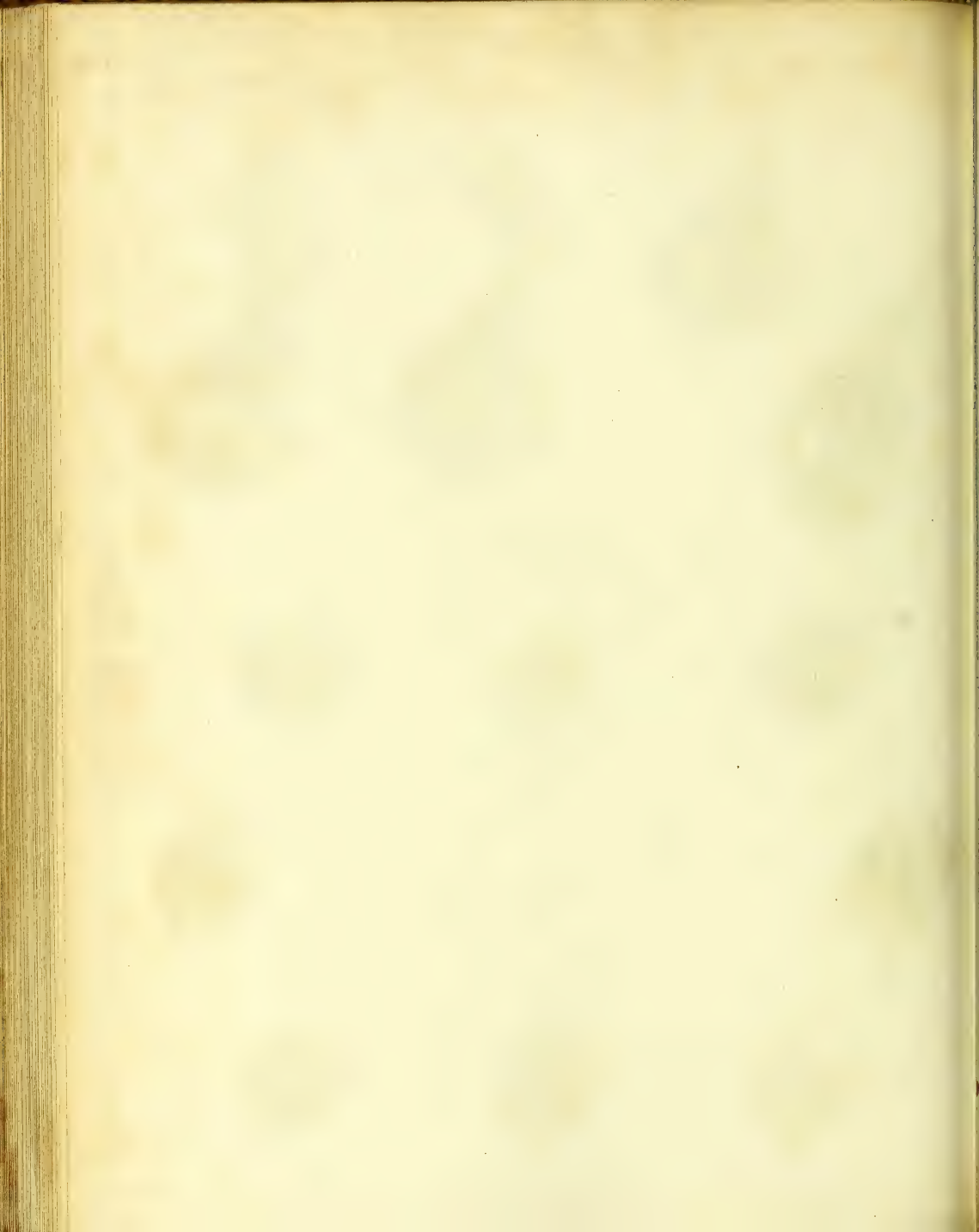




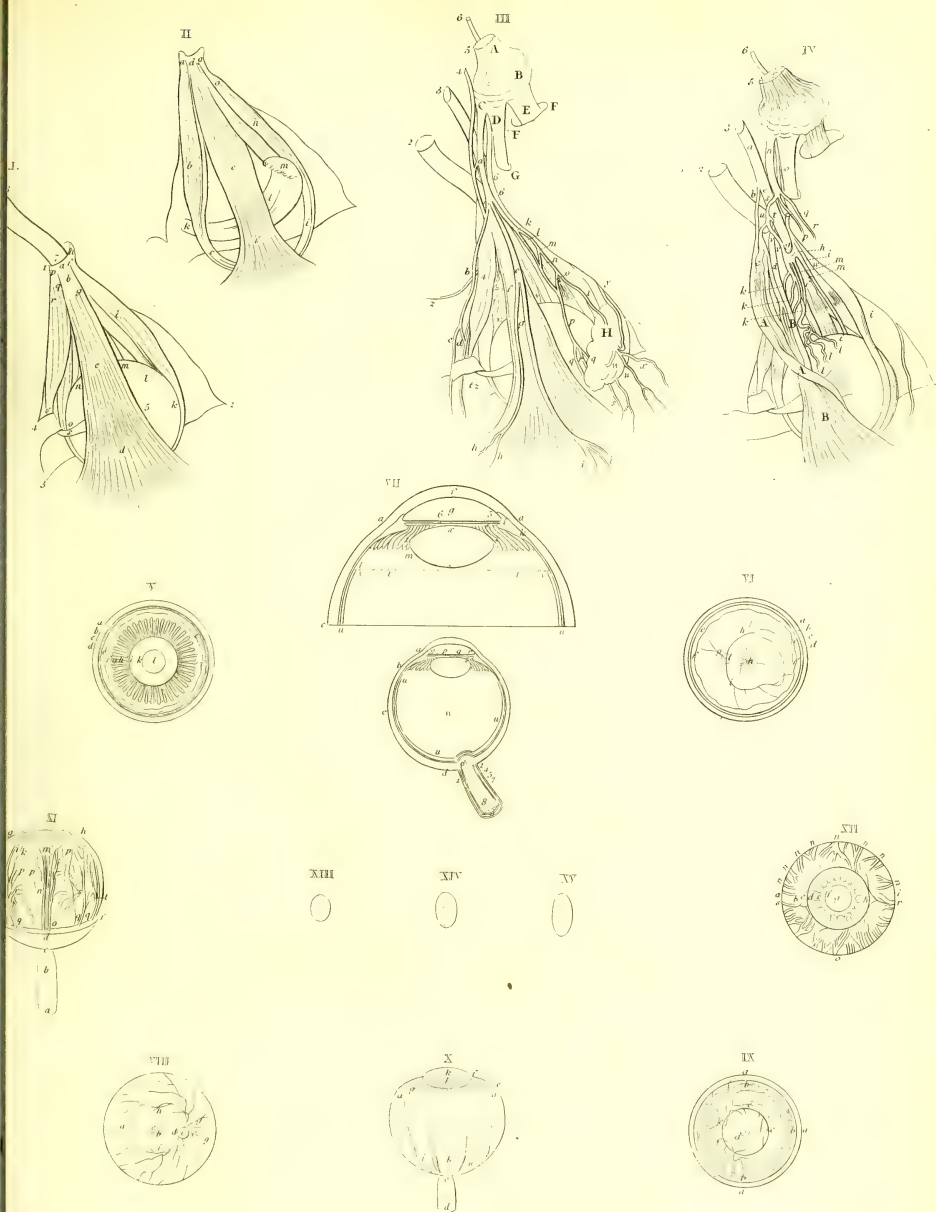


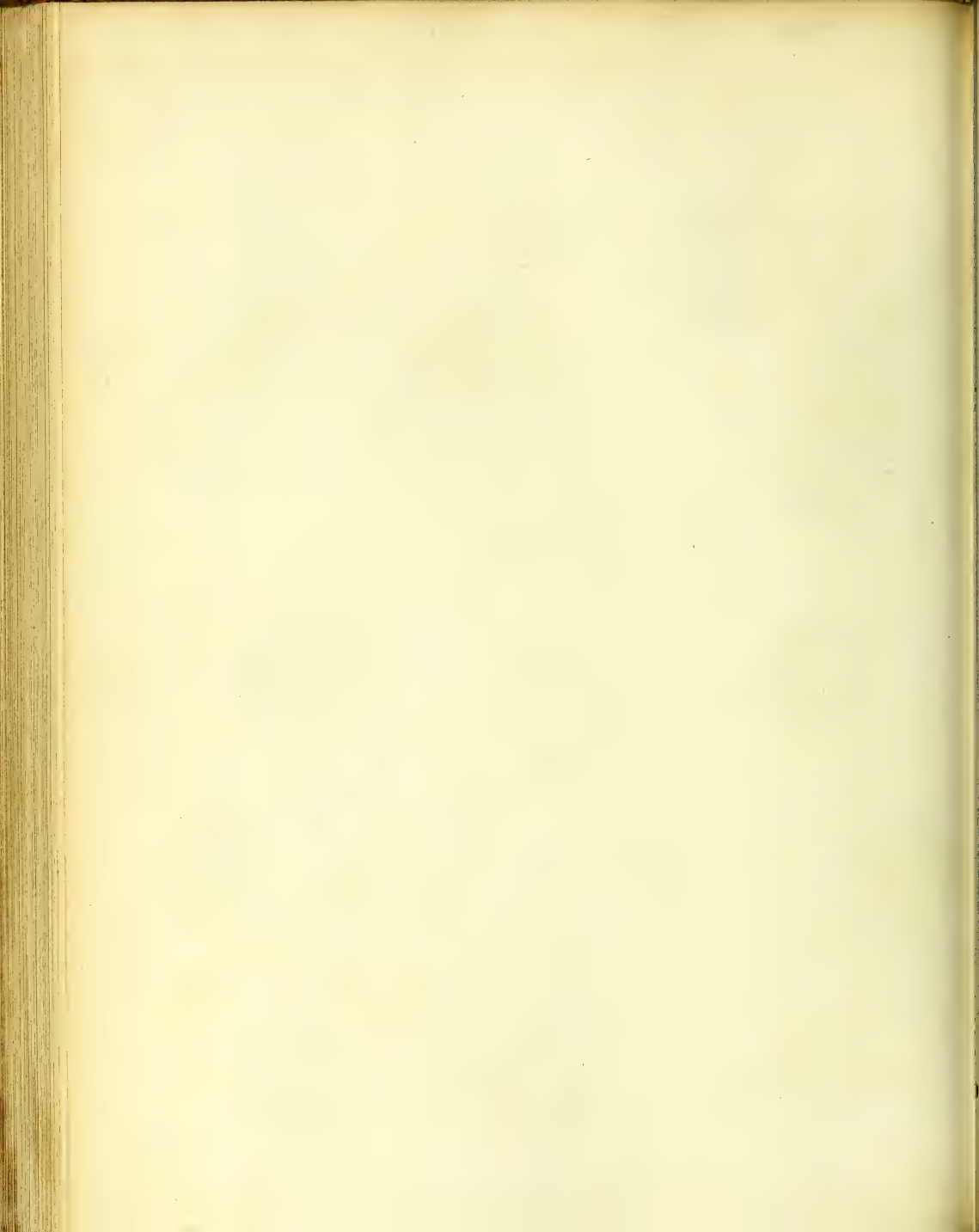
G.I.





E. c.





ANATOMY.

Organs of Sense.

Eye.

FIG. 1.

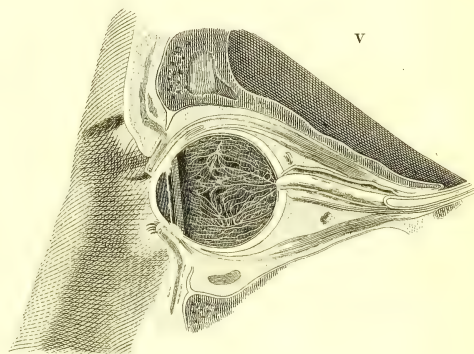
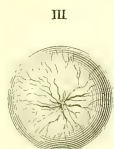
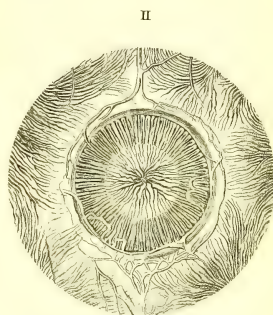
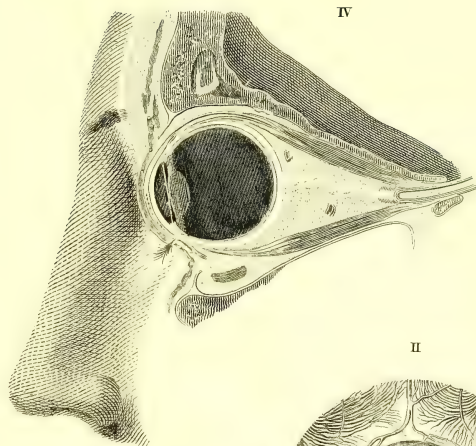
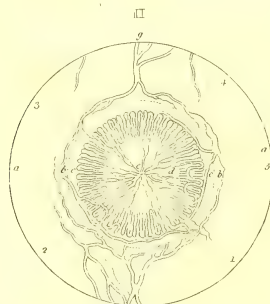
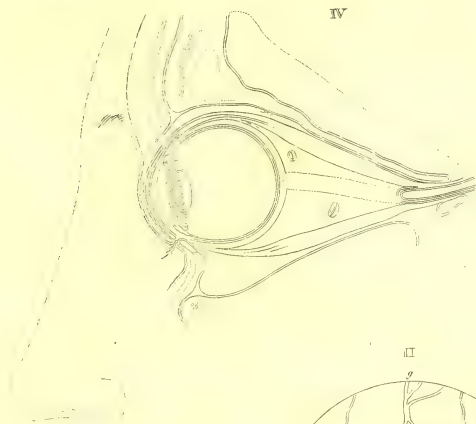
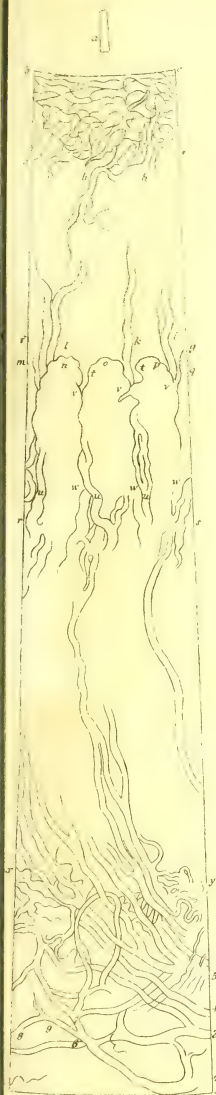




FIG. 1.

Organs of Sense.

Eye.



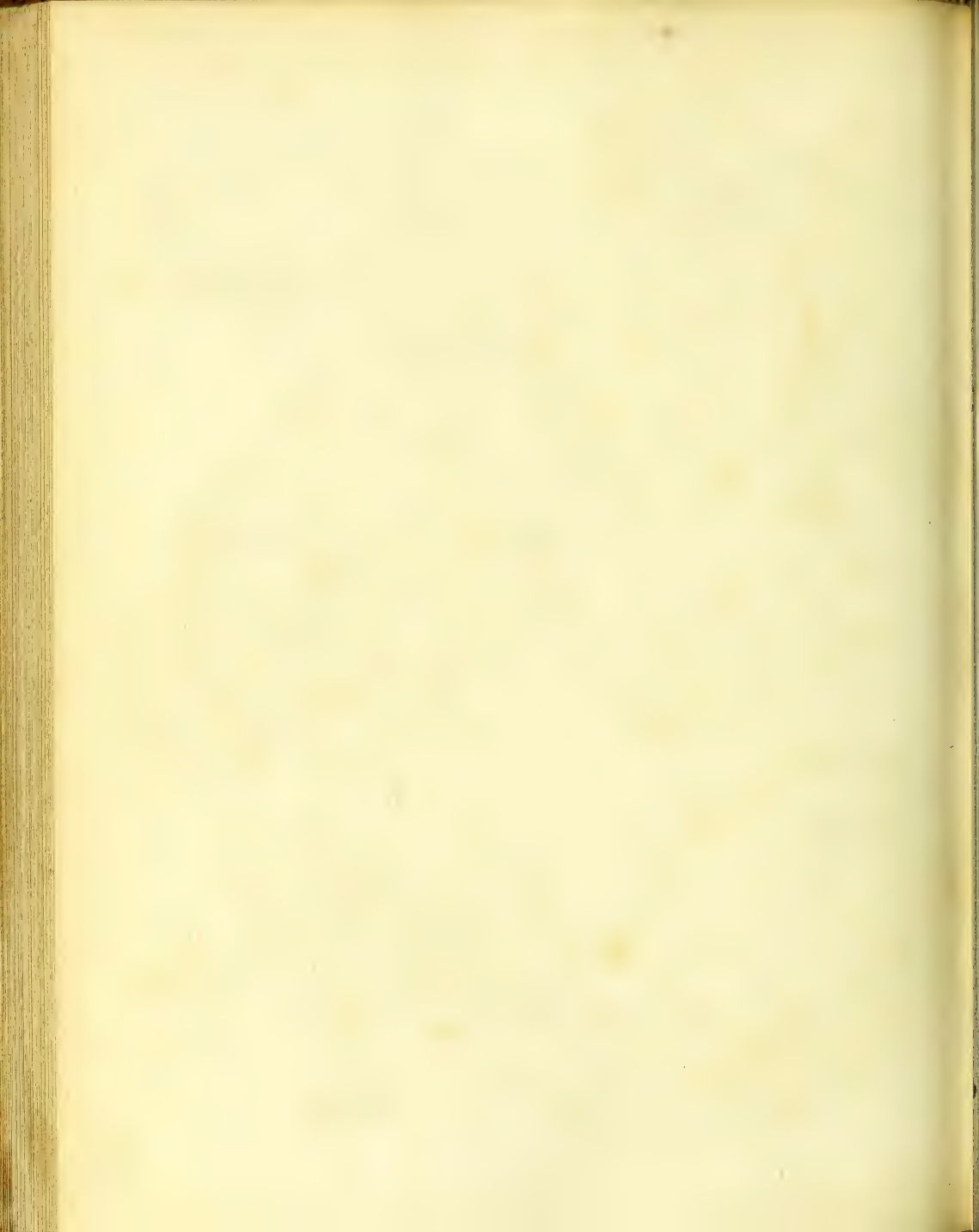
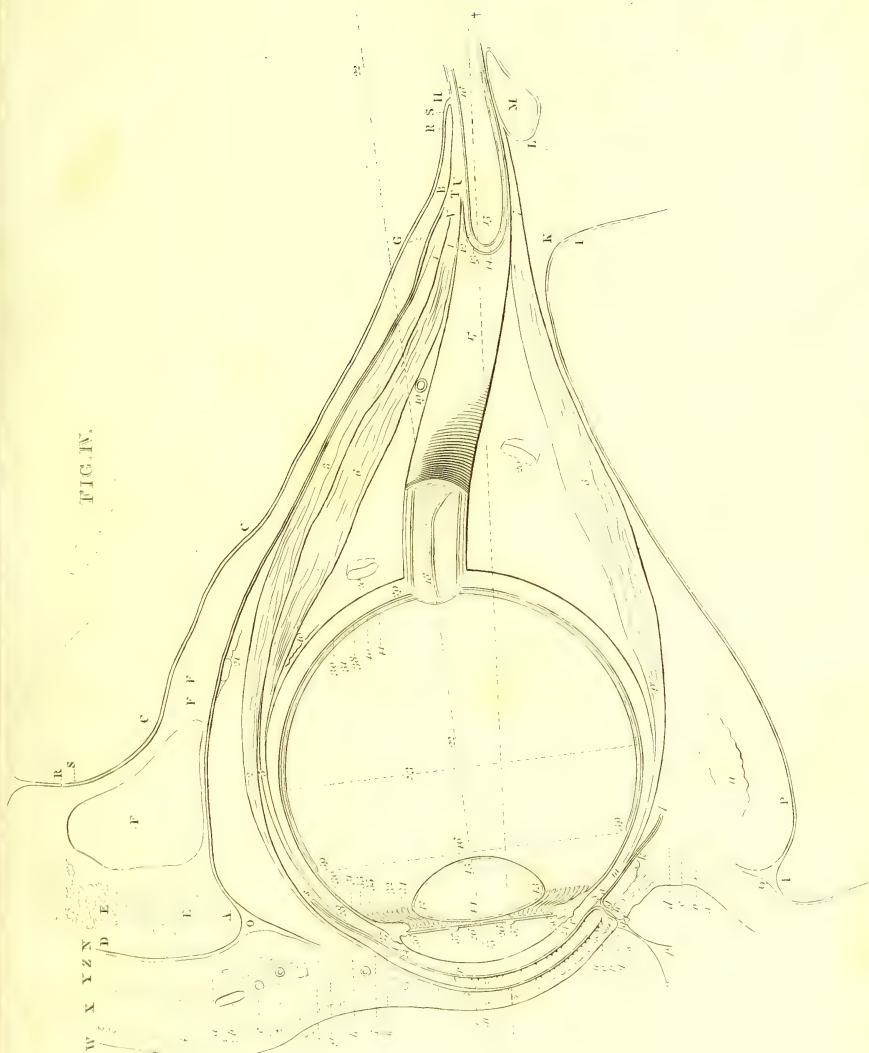
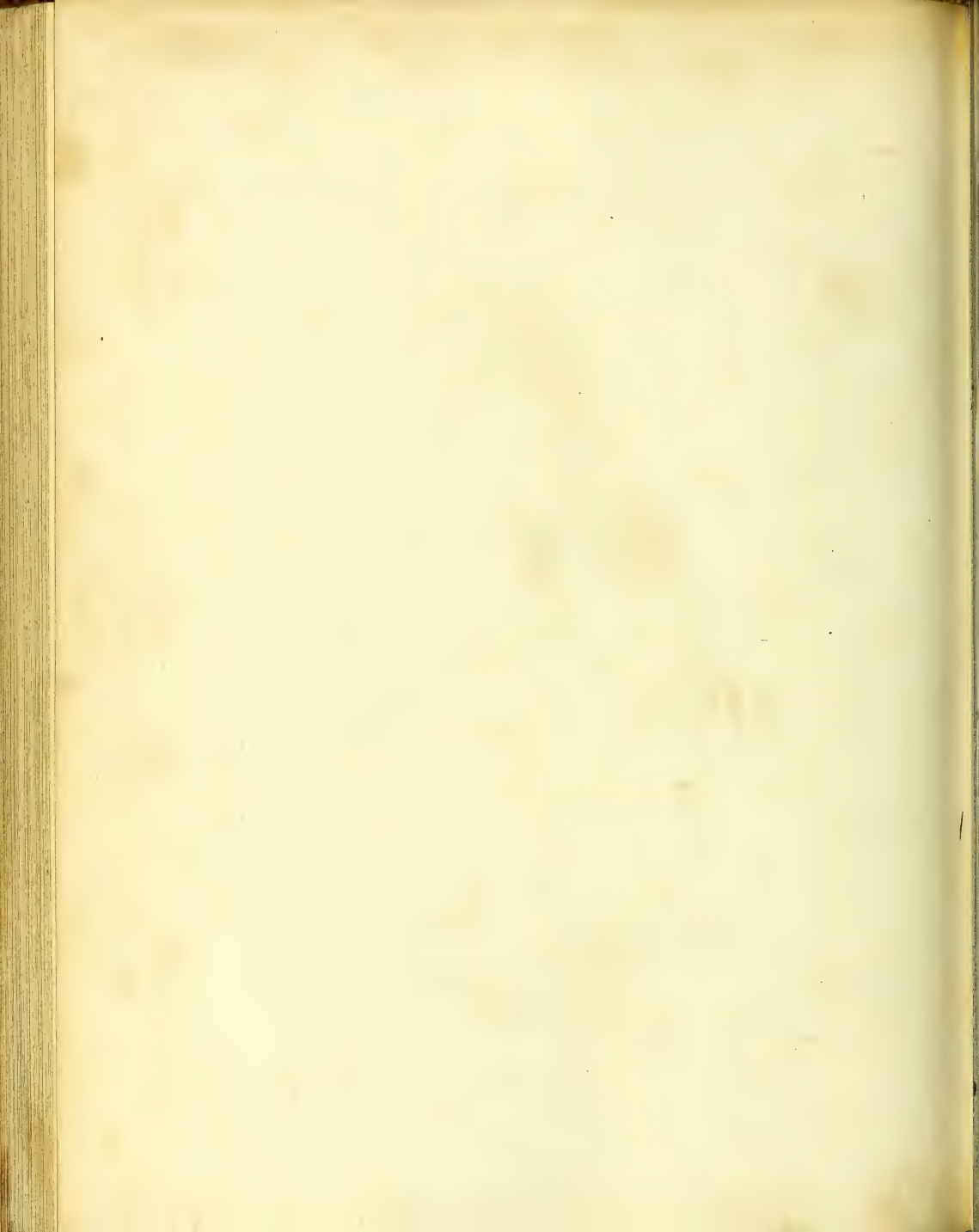


FIG. IV.





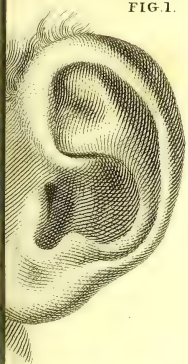
ANATOMY.

Organs of Sense.

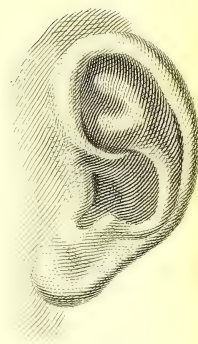
Ear.

PLATE I.

FIG. 1.



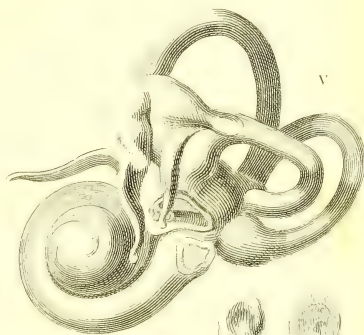
II



III



V



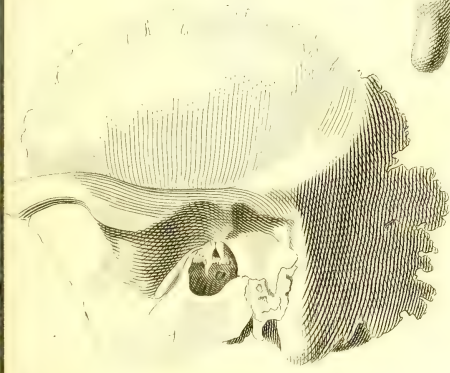
VII



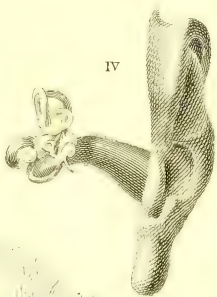
XIII



XII



IV



IX



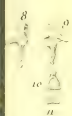
VIII



XI



X

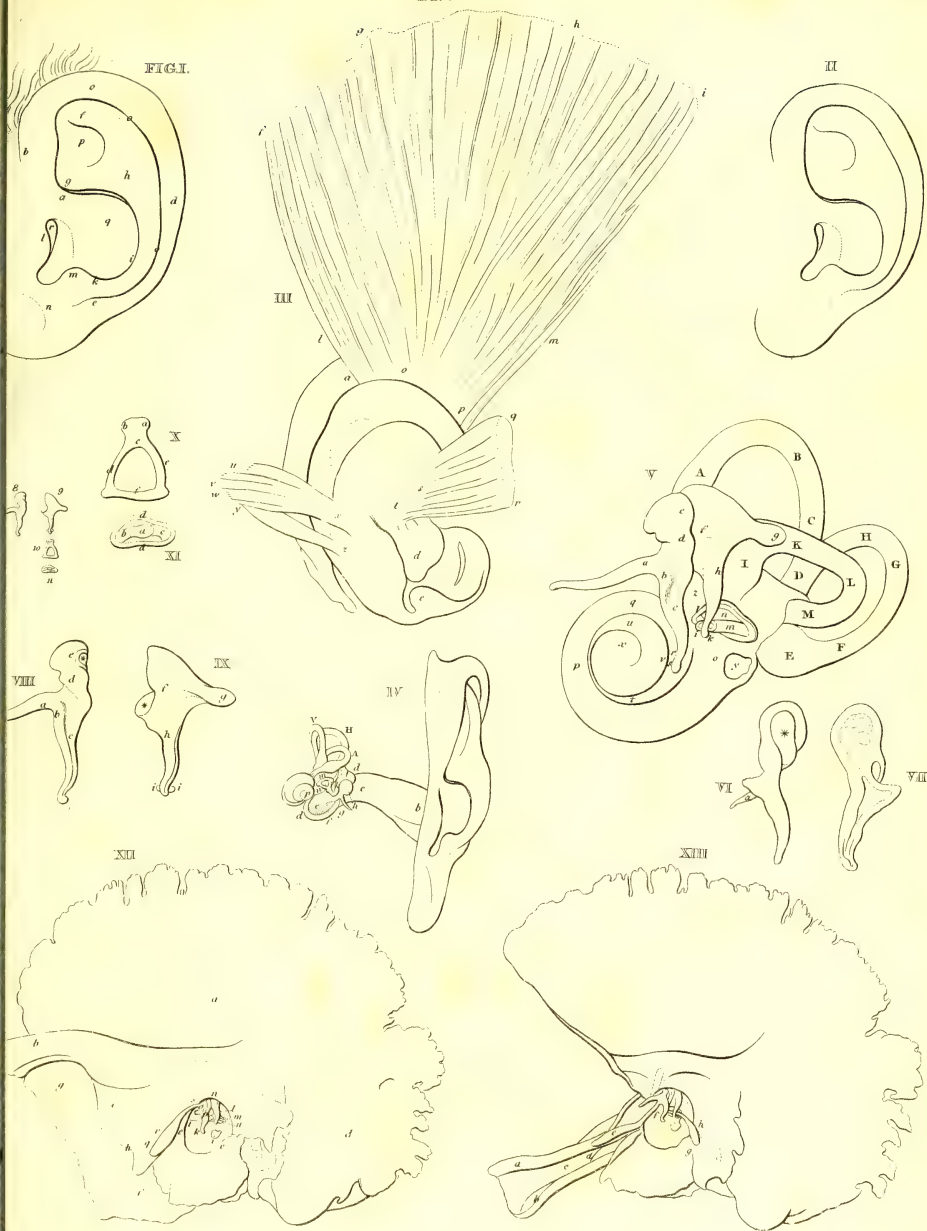




ANATOMY.

Organs of Sense.
Ear.

PLATE I.





ANATOMY

Organs of Sense.
Ear.

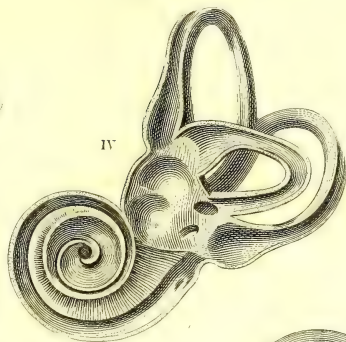
FIG. I.

PLATE II.

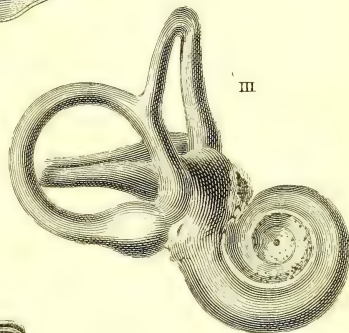
II



IV



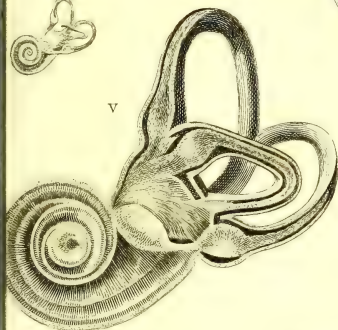
III



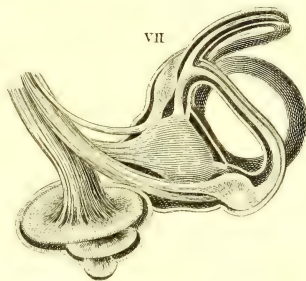
VI



V



VII



IX



VIII



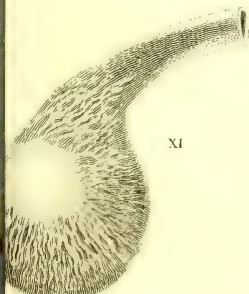
XIII



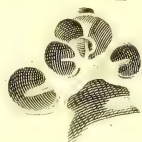
XII

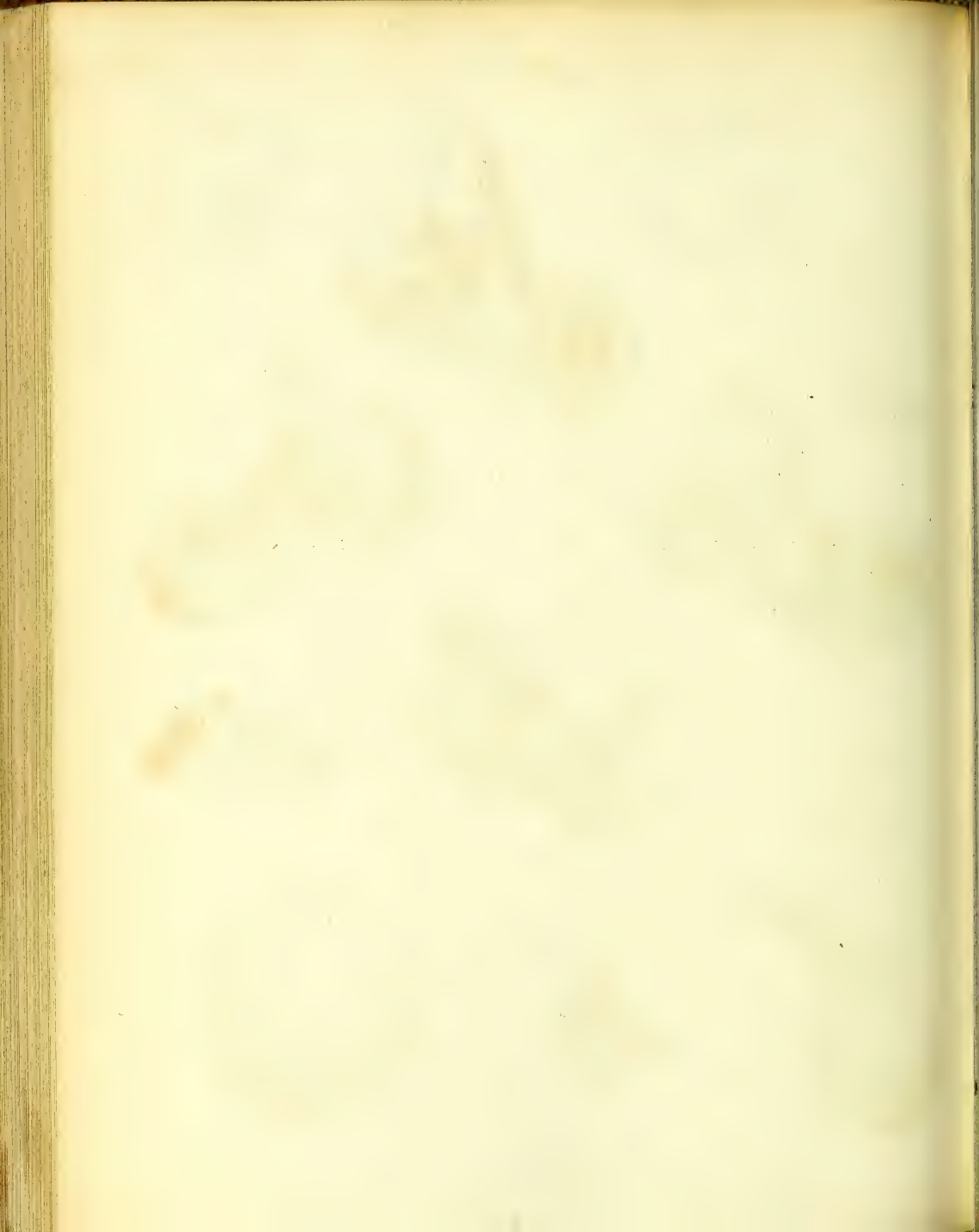


XI



X





ANATOMY.

Organs of Sense.

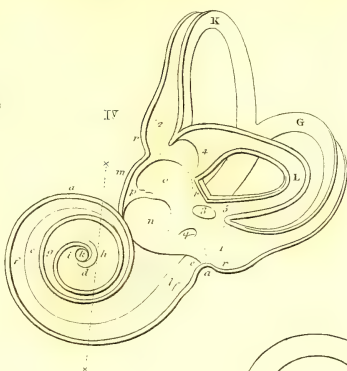
Ear

PLATE II

FIG. II.



IV



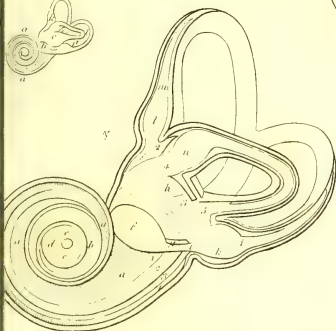
I



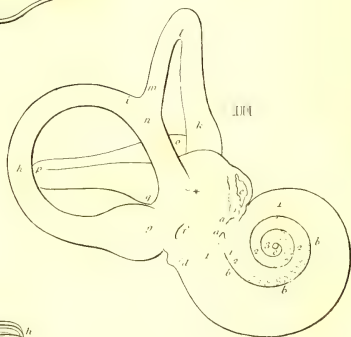
VI



V



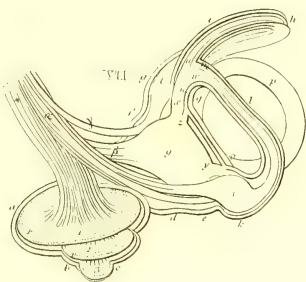
III



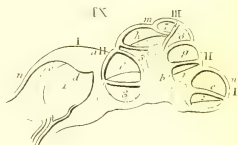
VIII



IV



IX



IX

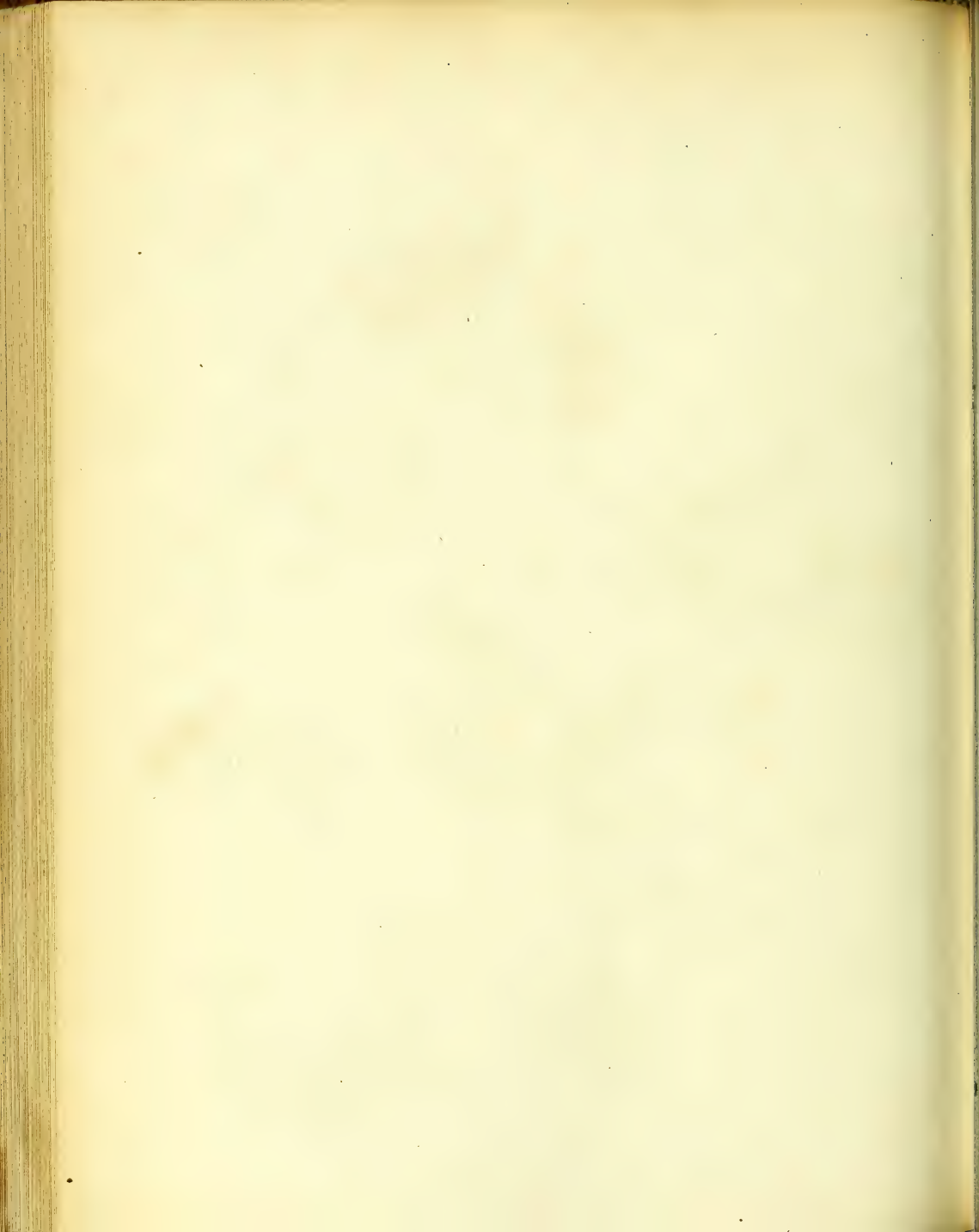


X



IX



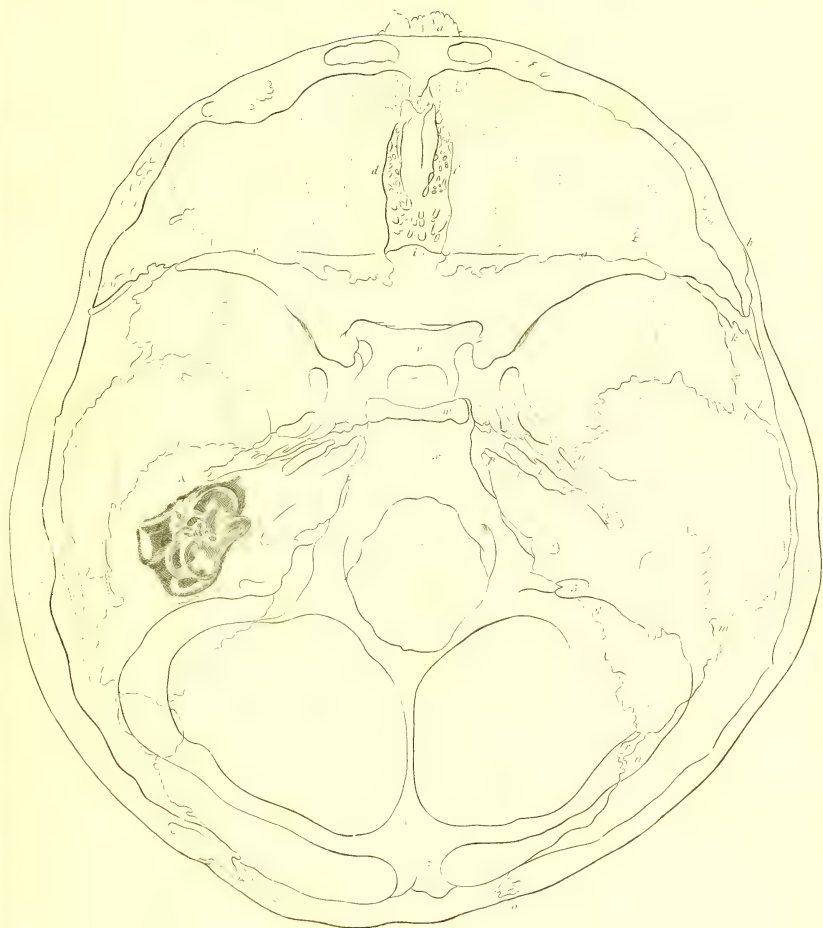


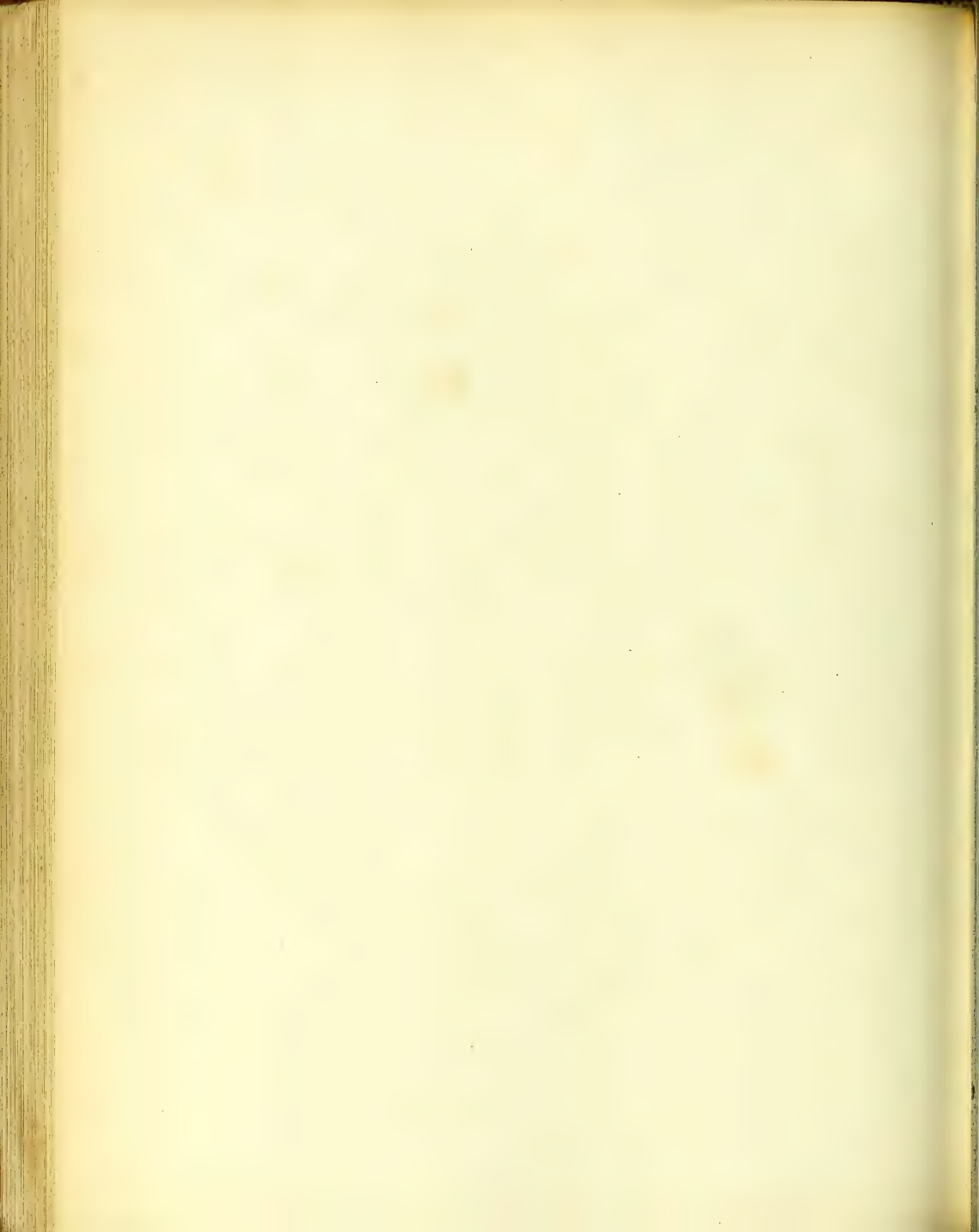
ANATOMY.

Organs of Sense.

Ear.

PLATE III.

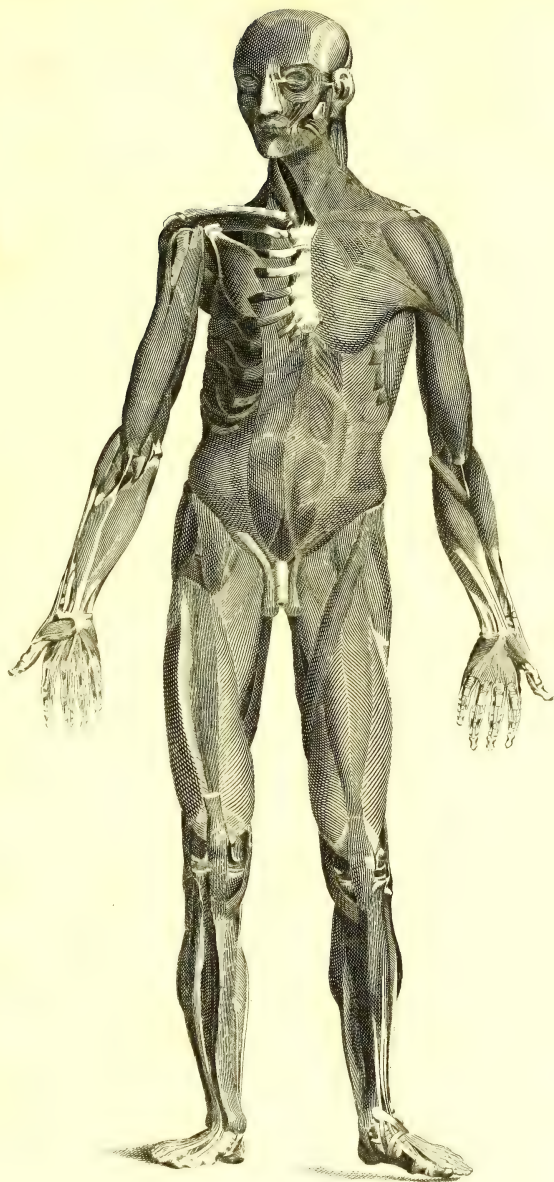


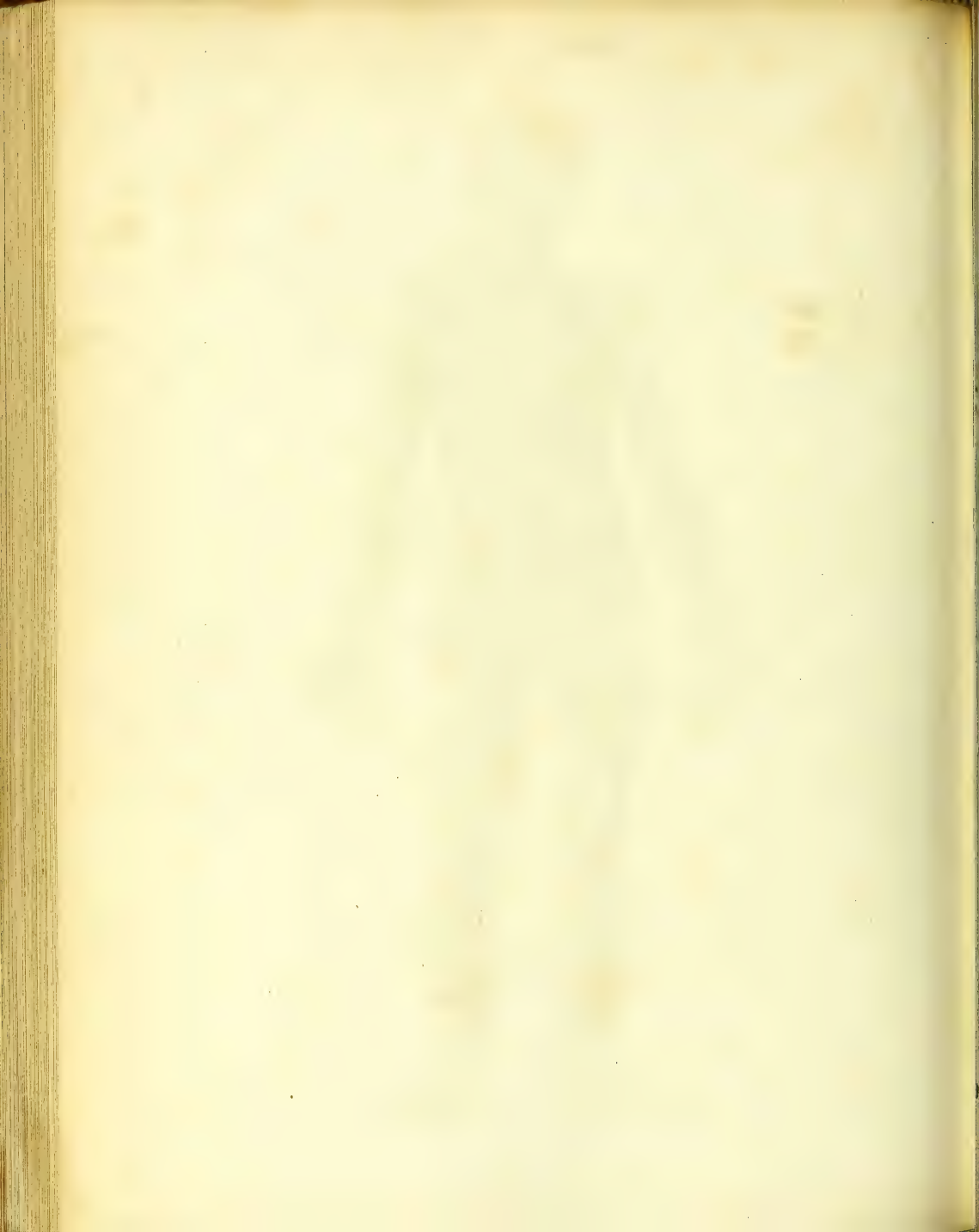


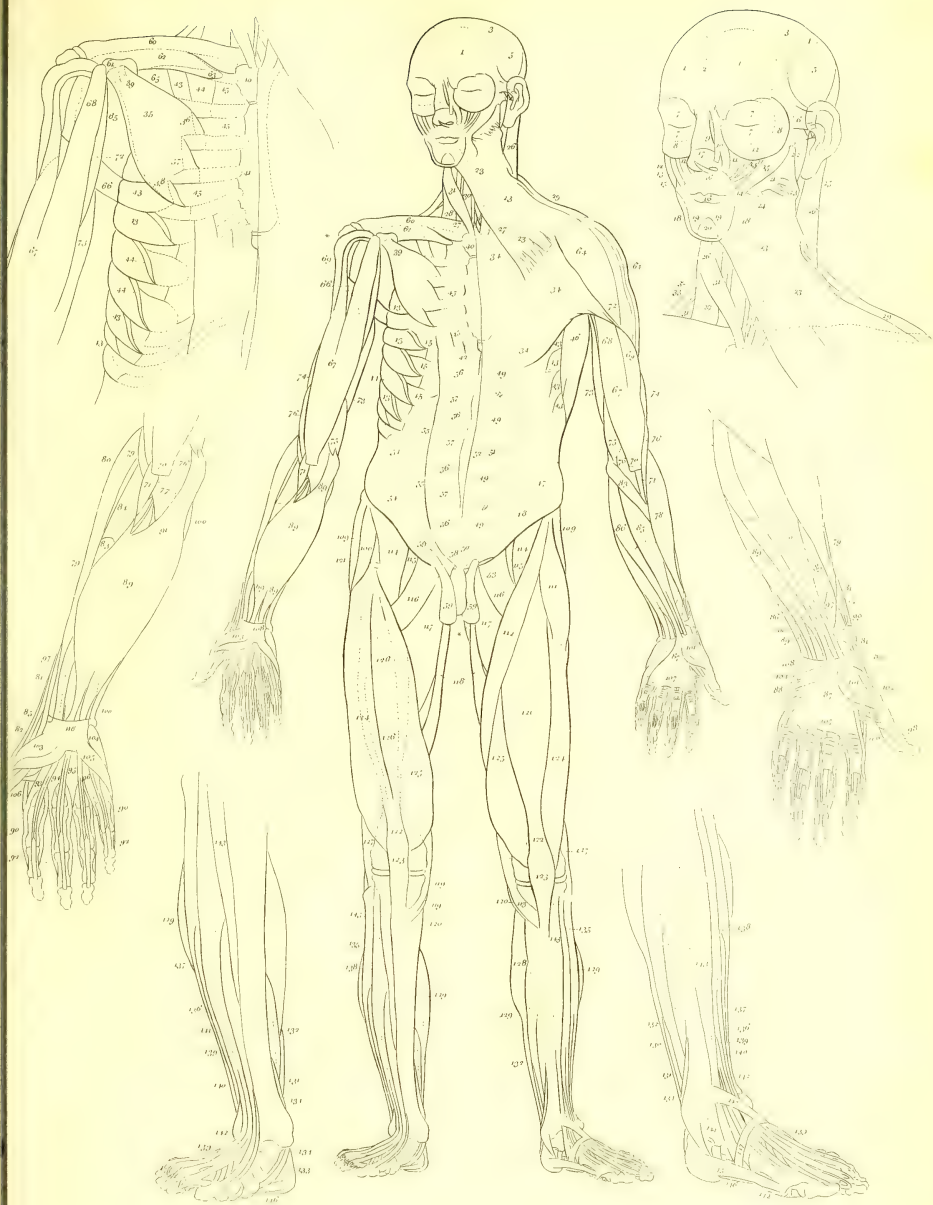
ANATOMY.

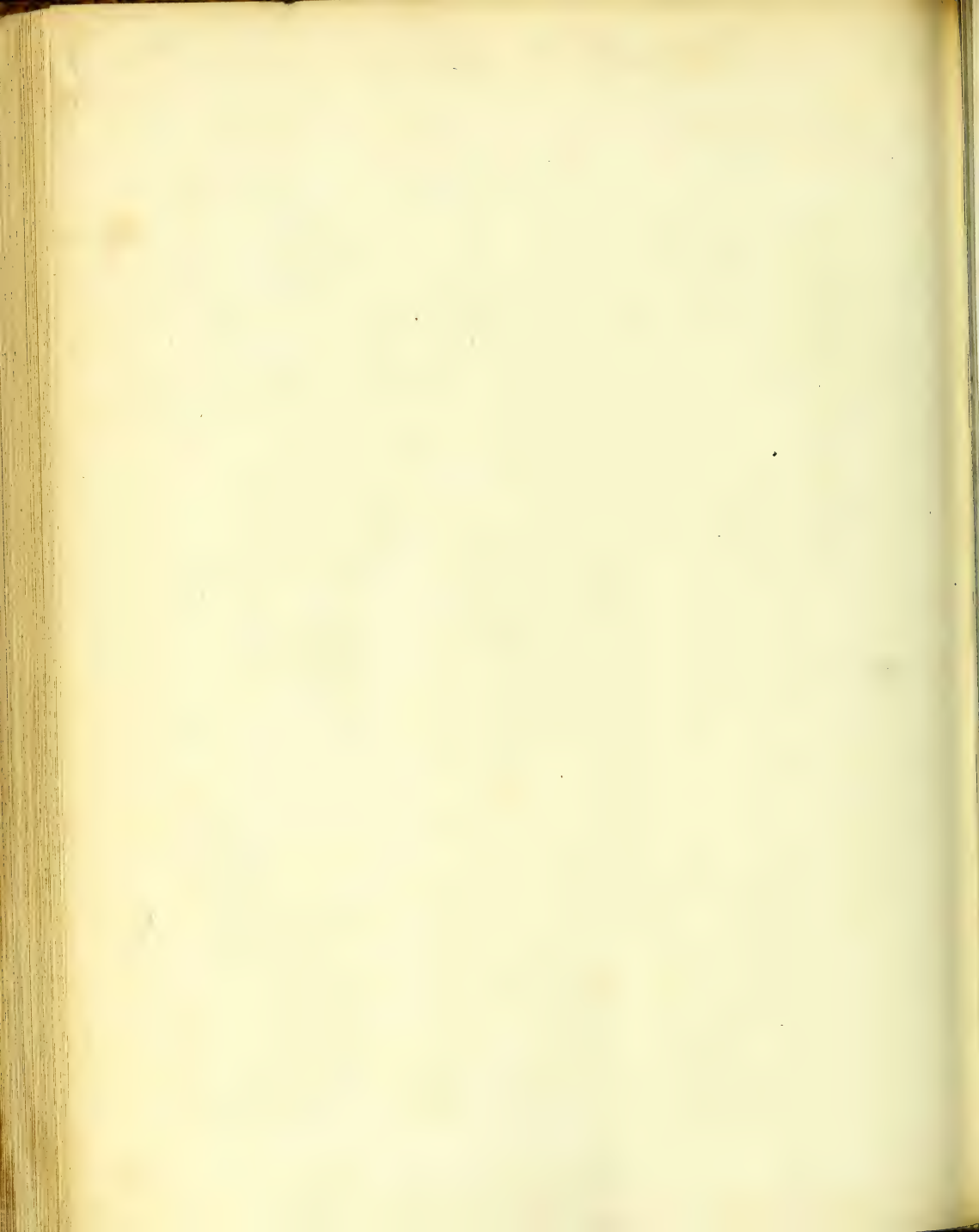
Myology.

PLATE VIII.

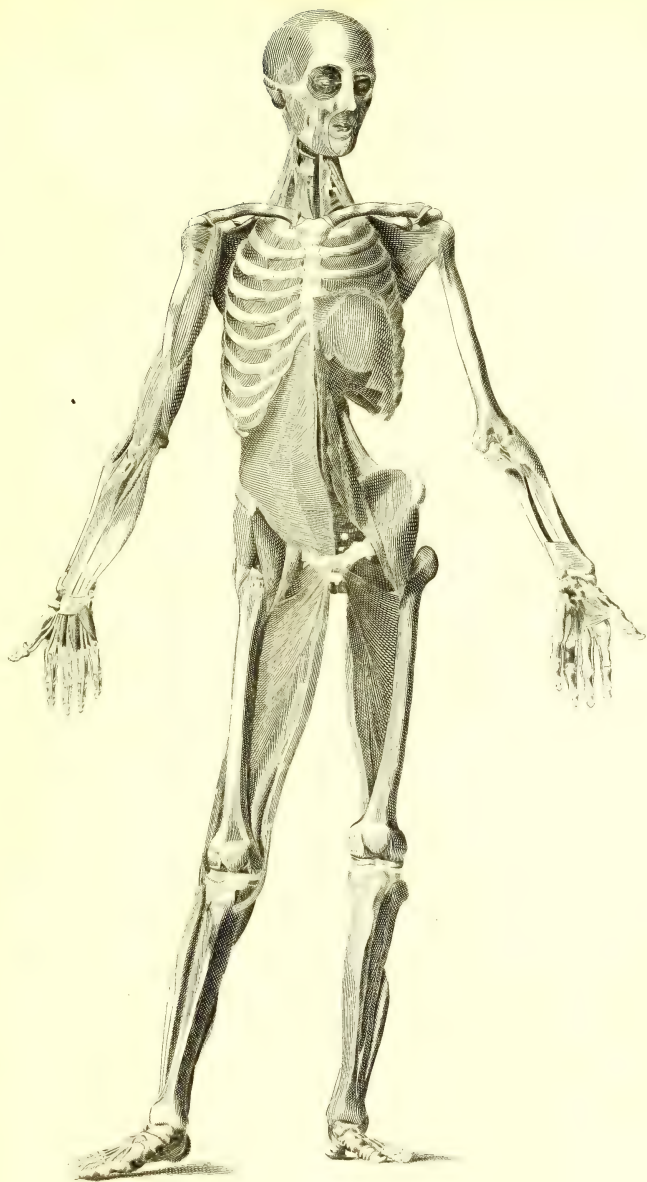


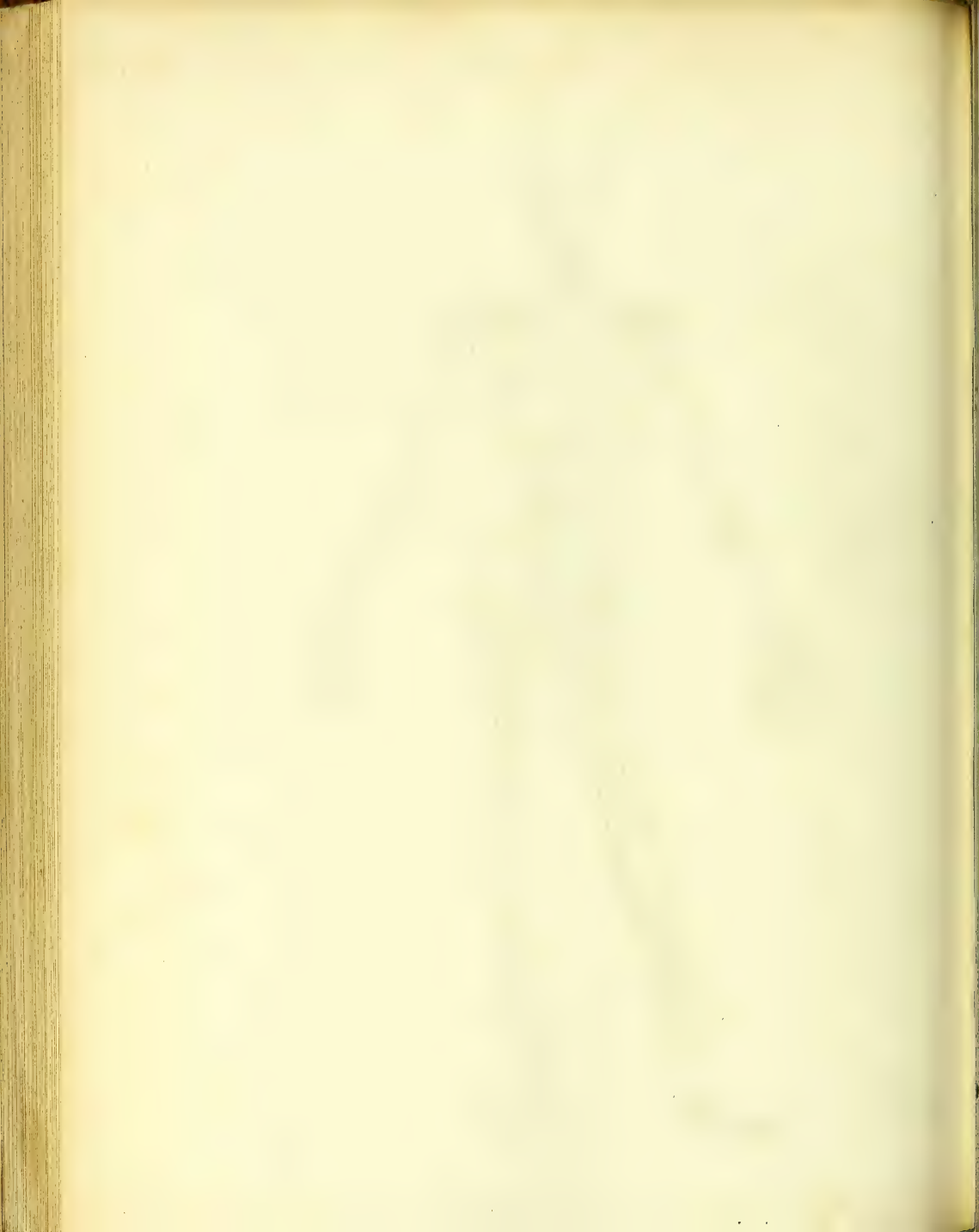


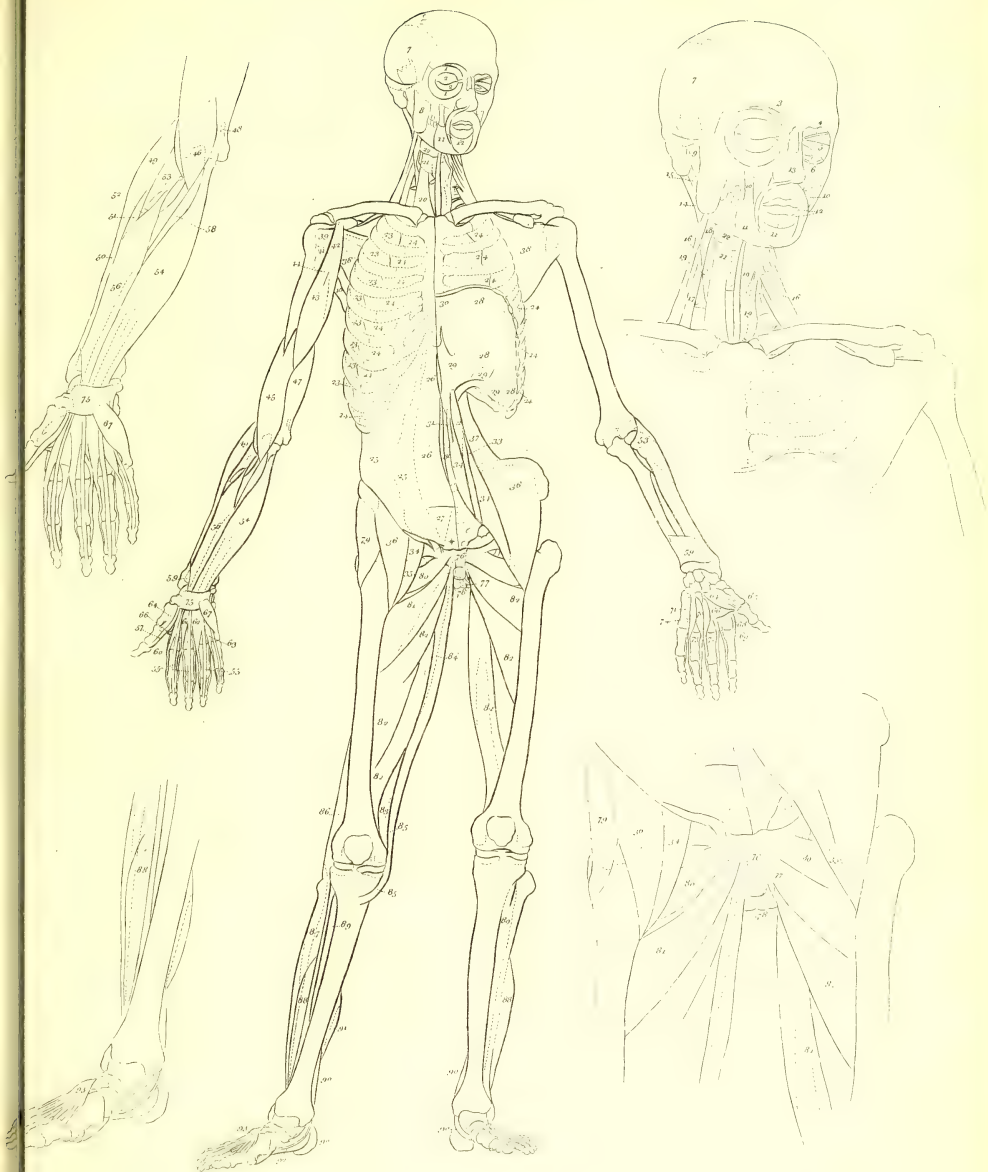


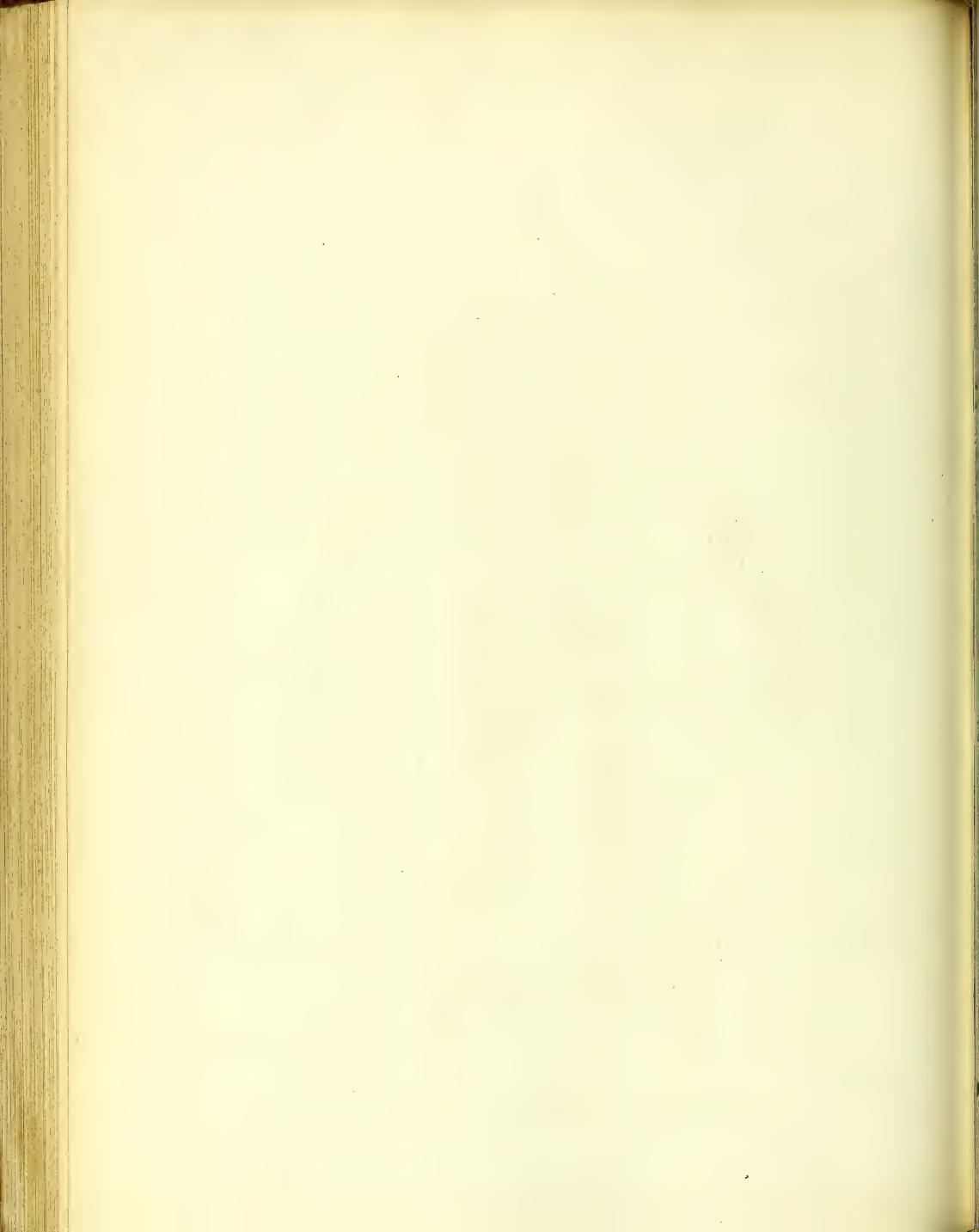


Myology

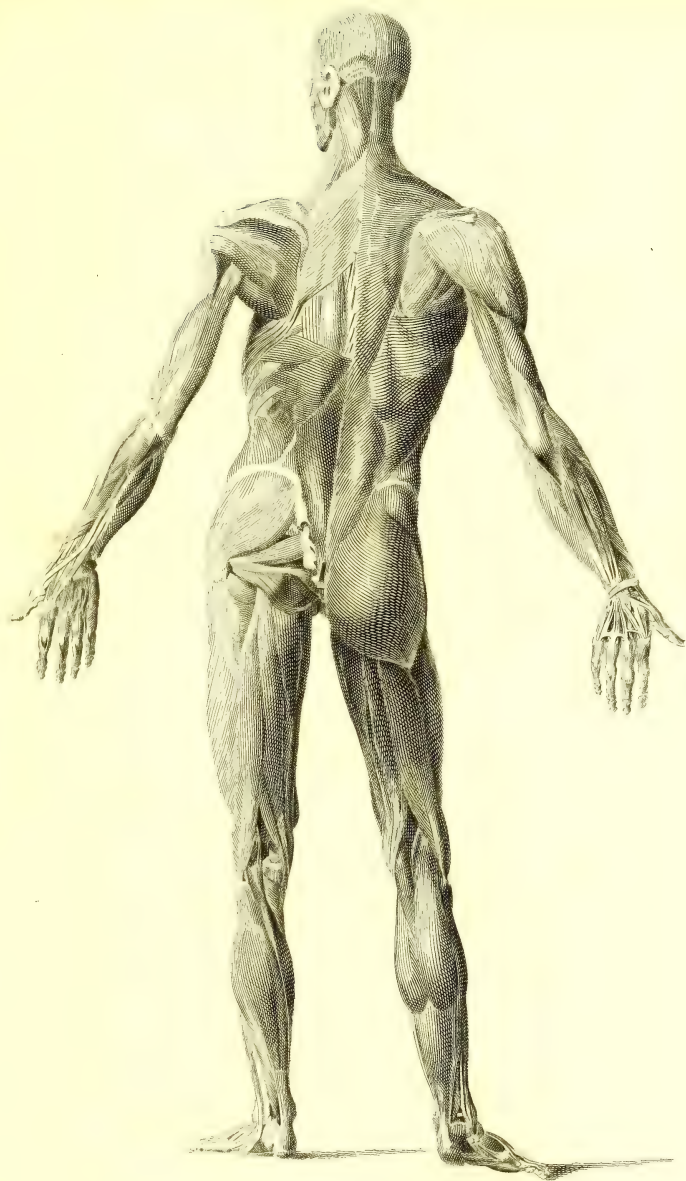




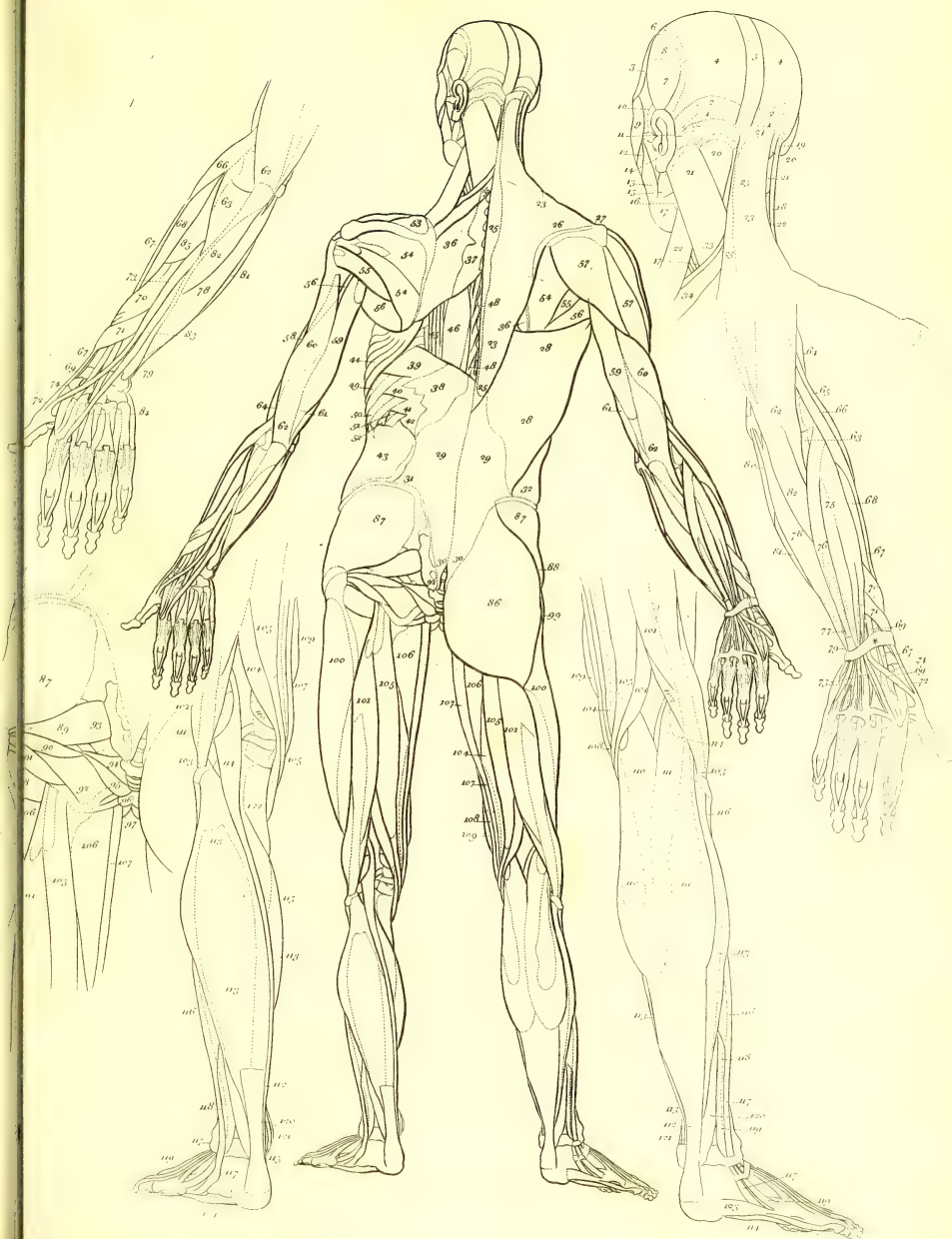


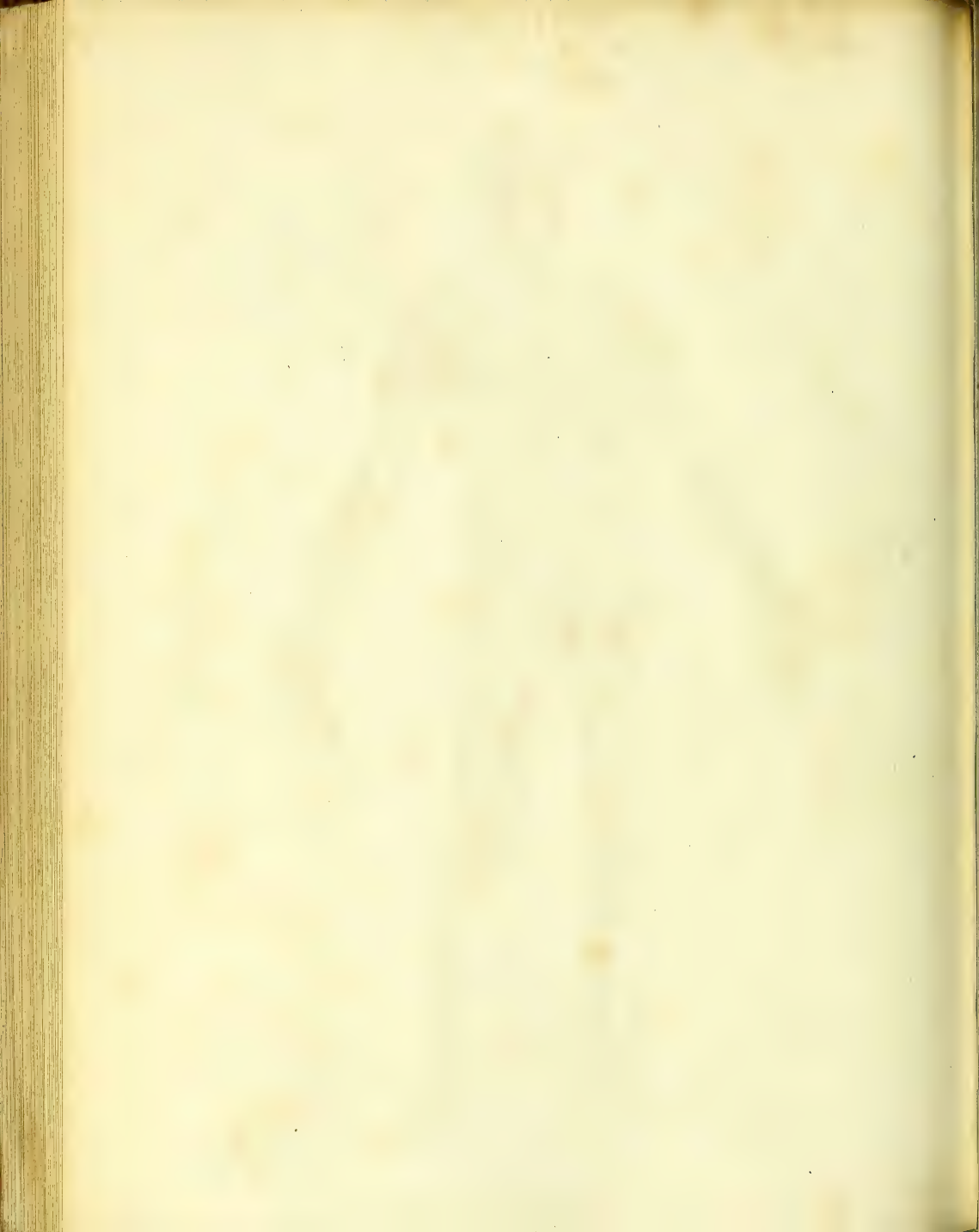


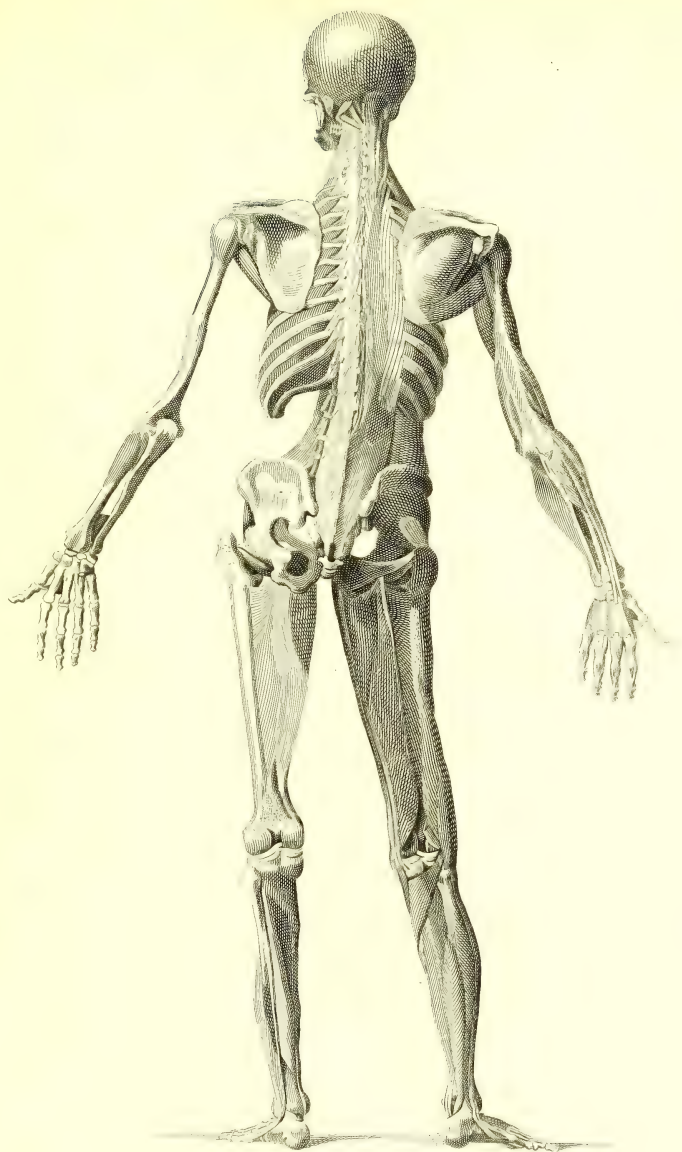
Myology.

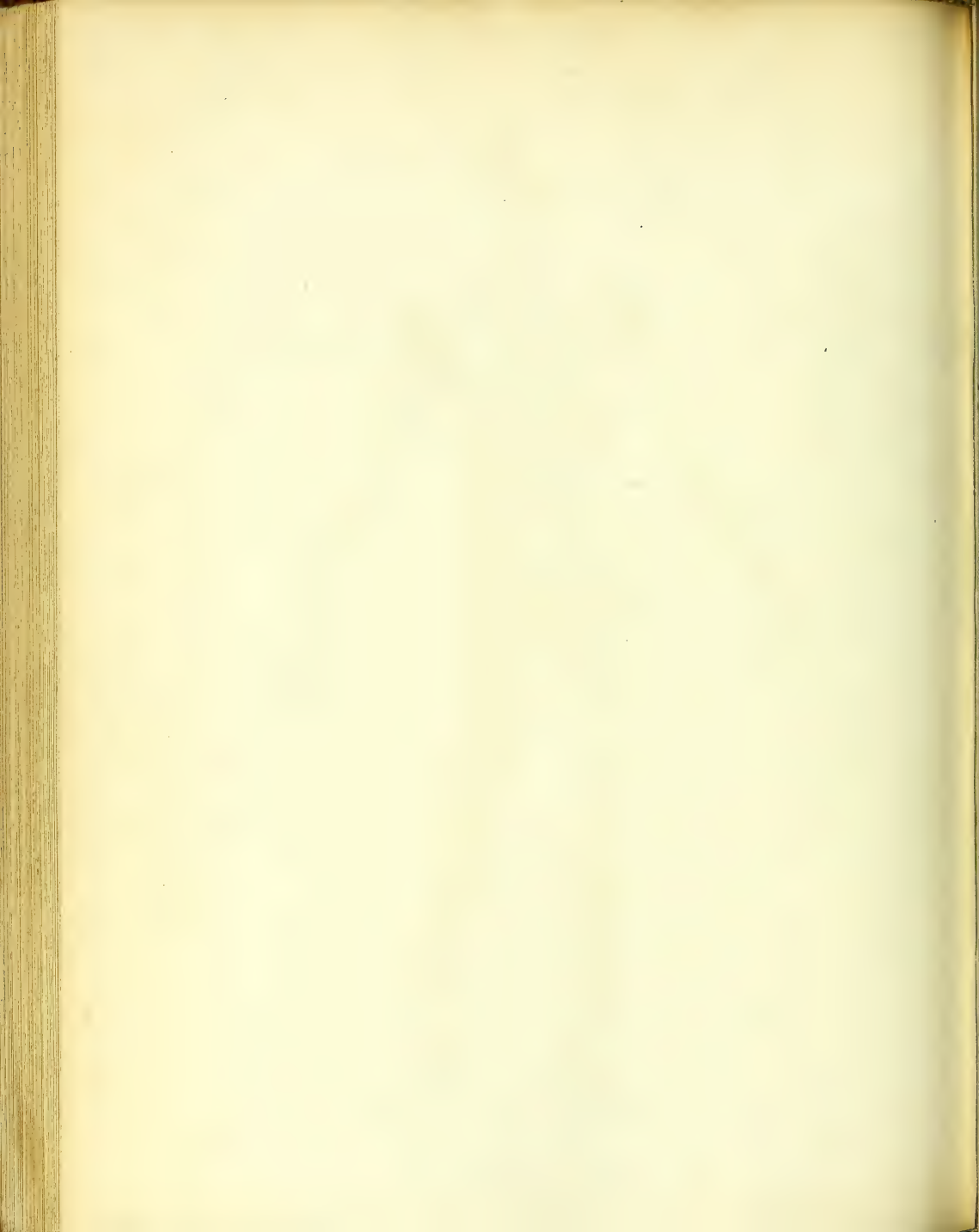




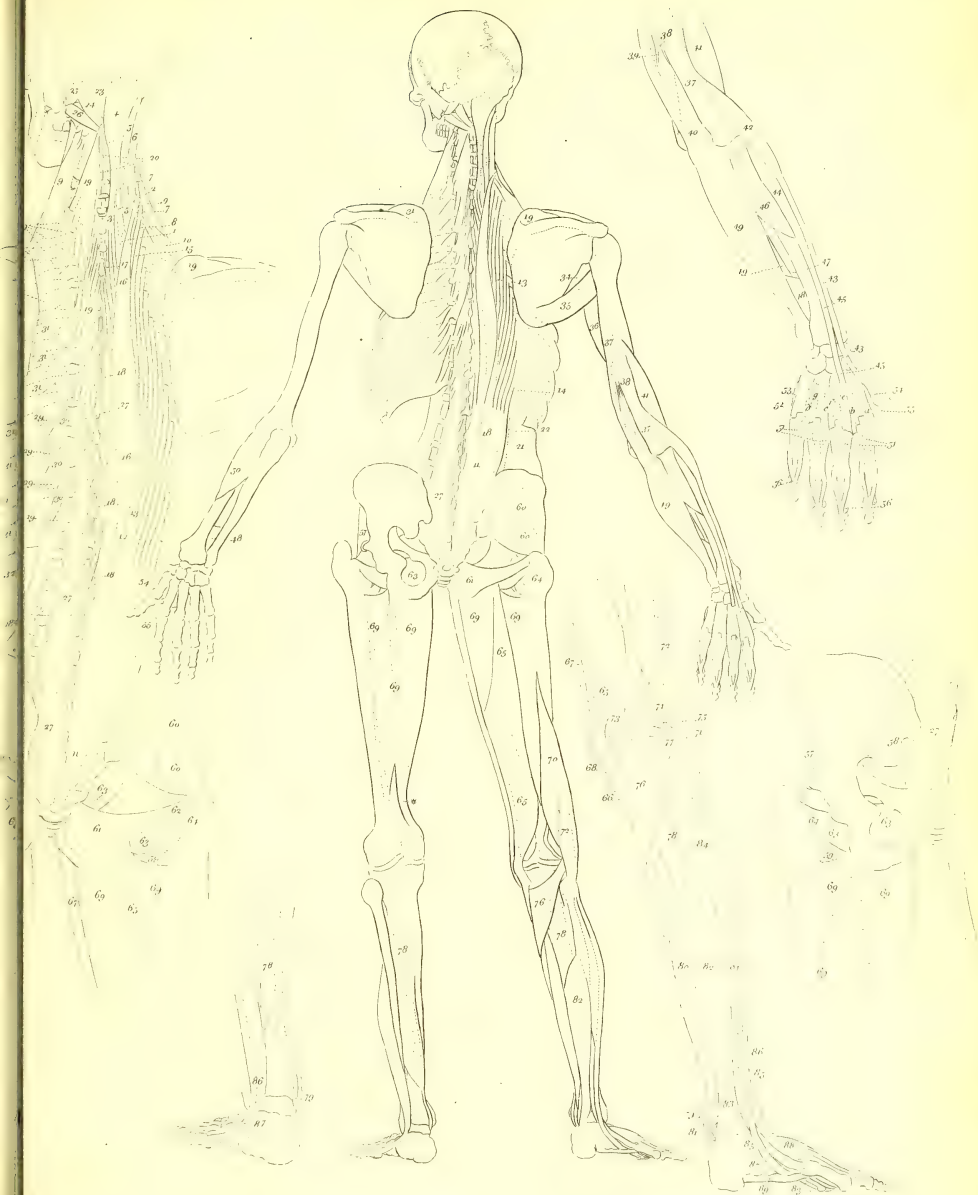


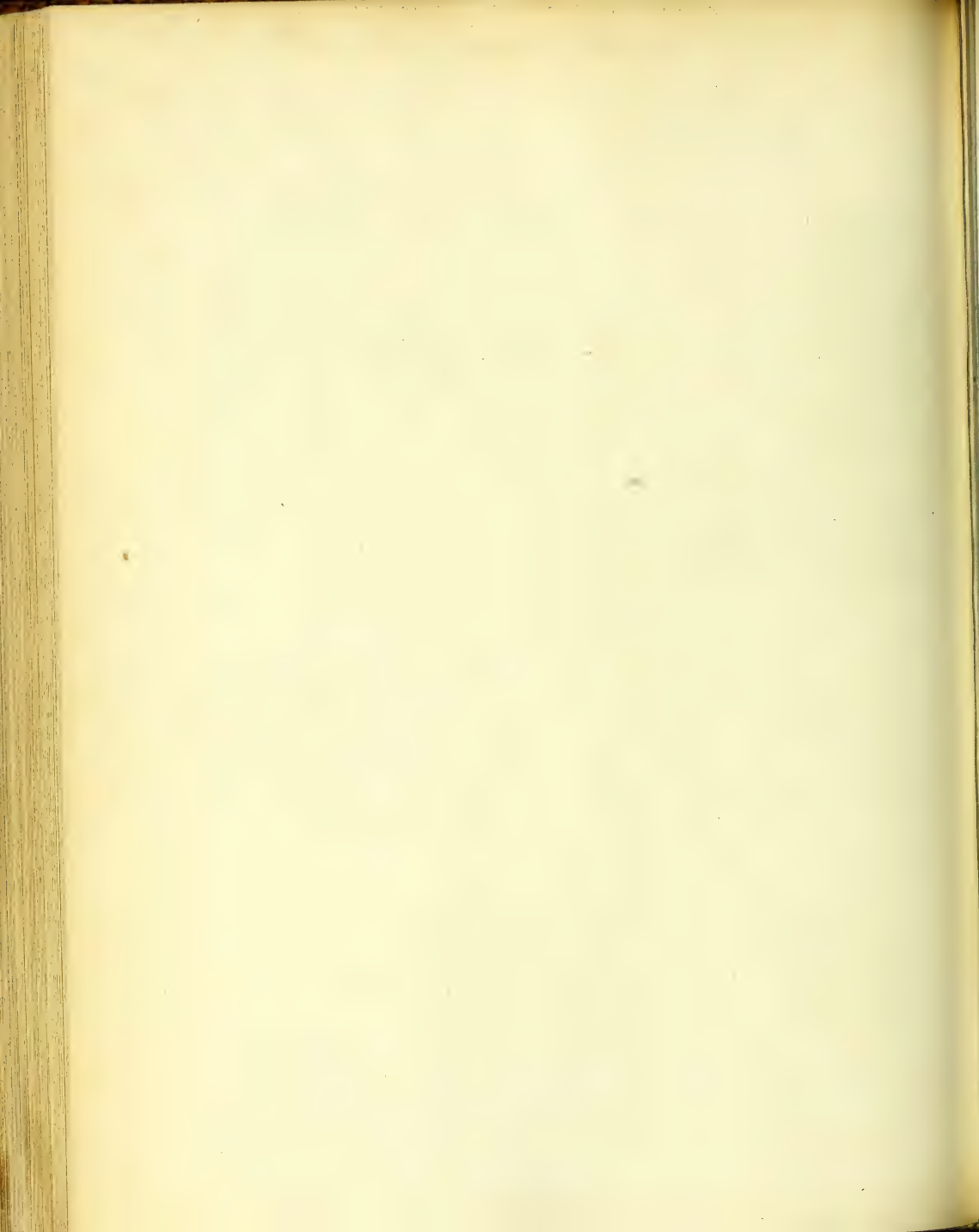




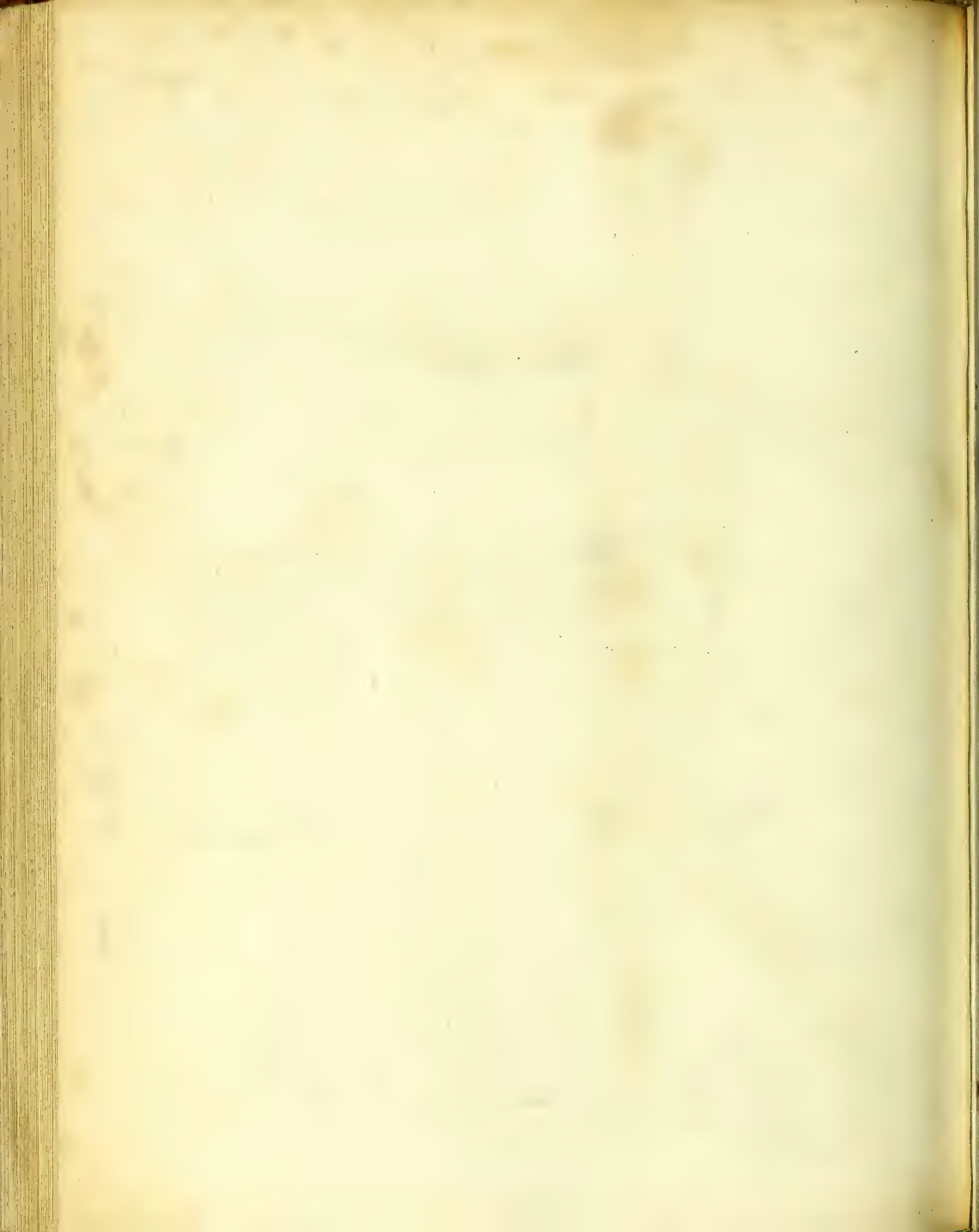


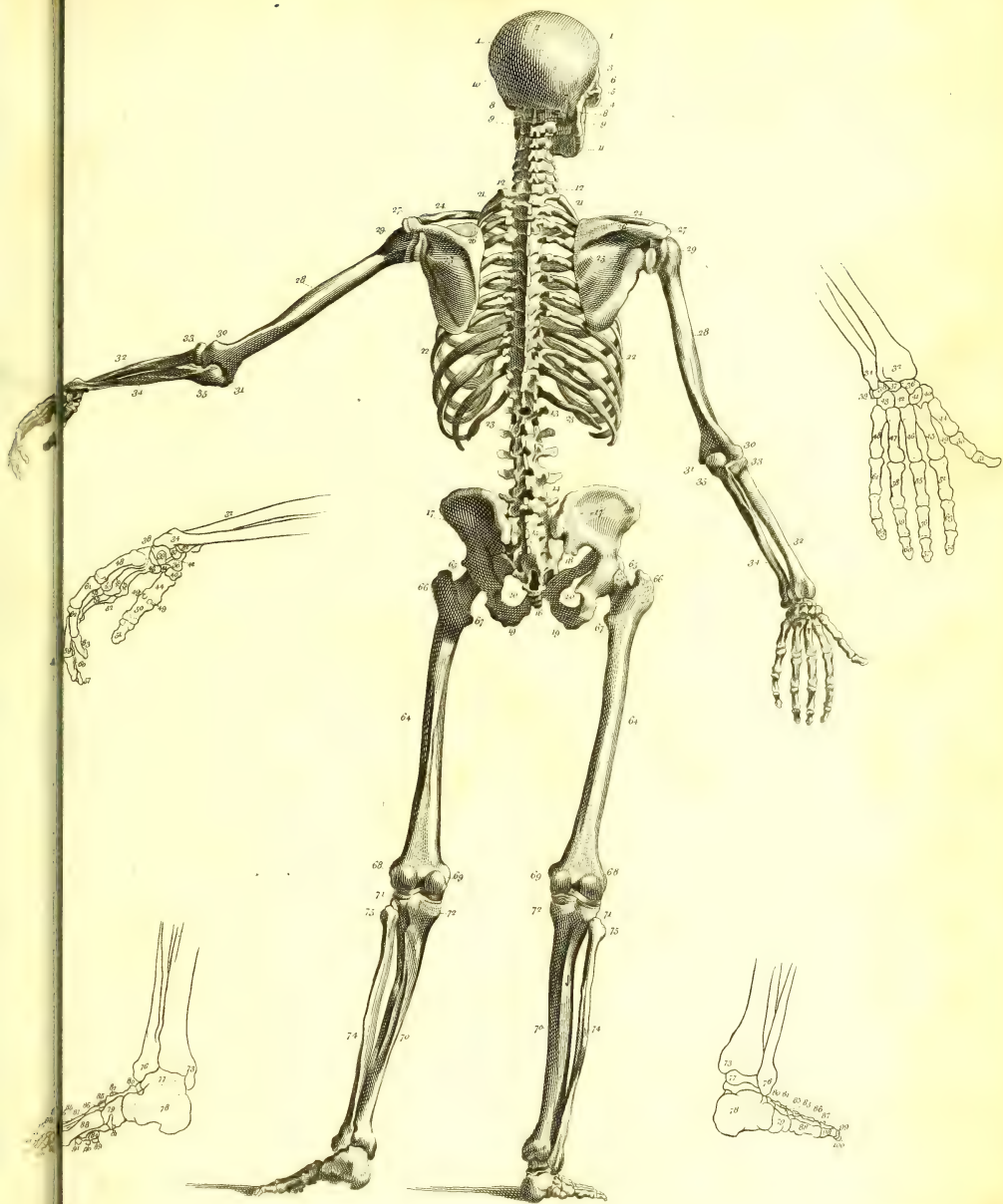
Myology.

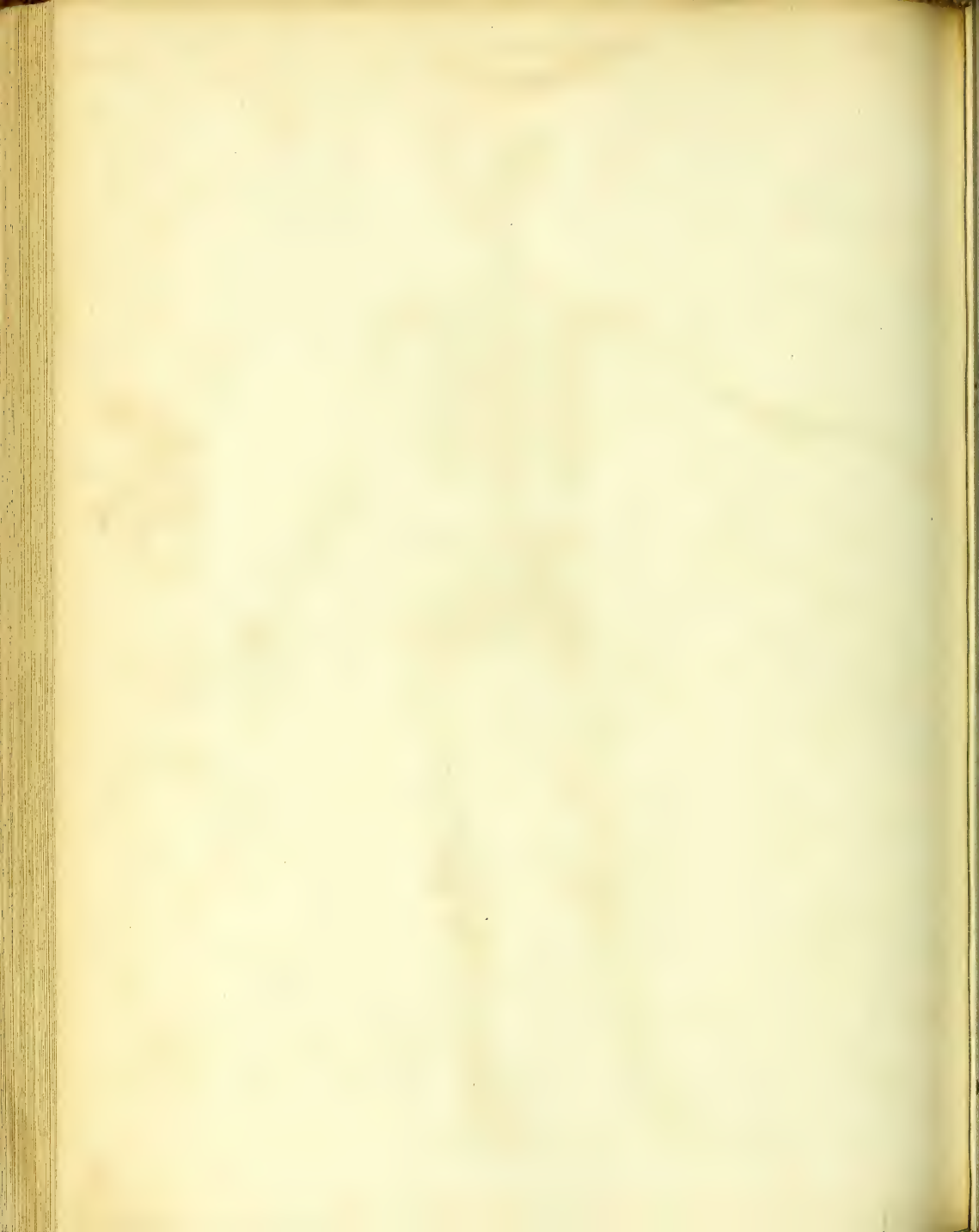


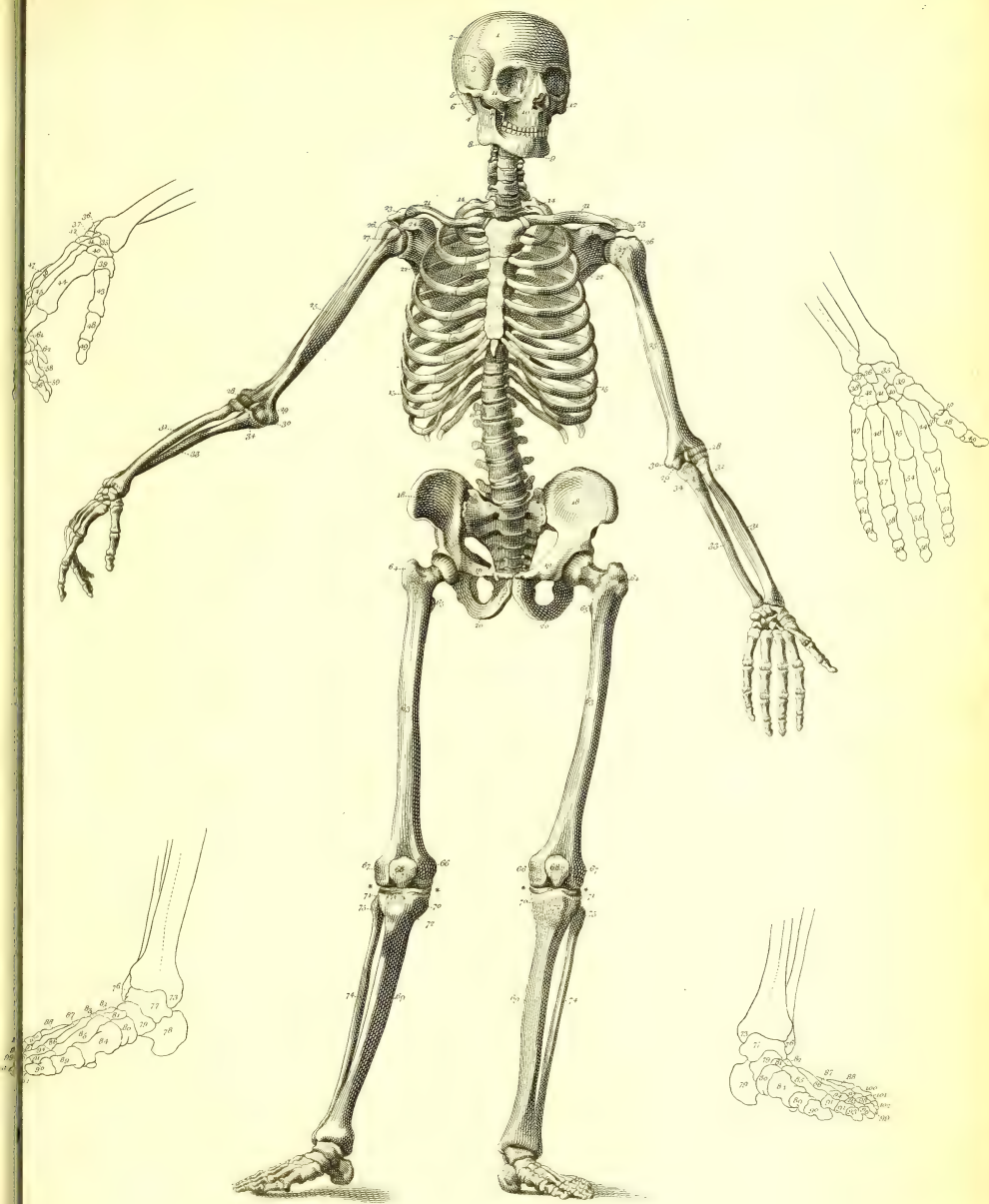


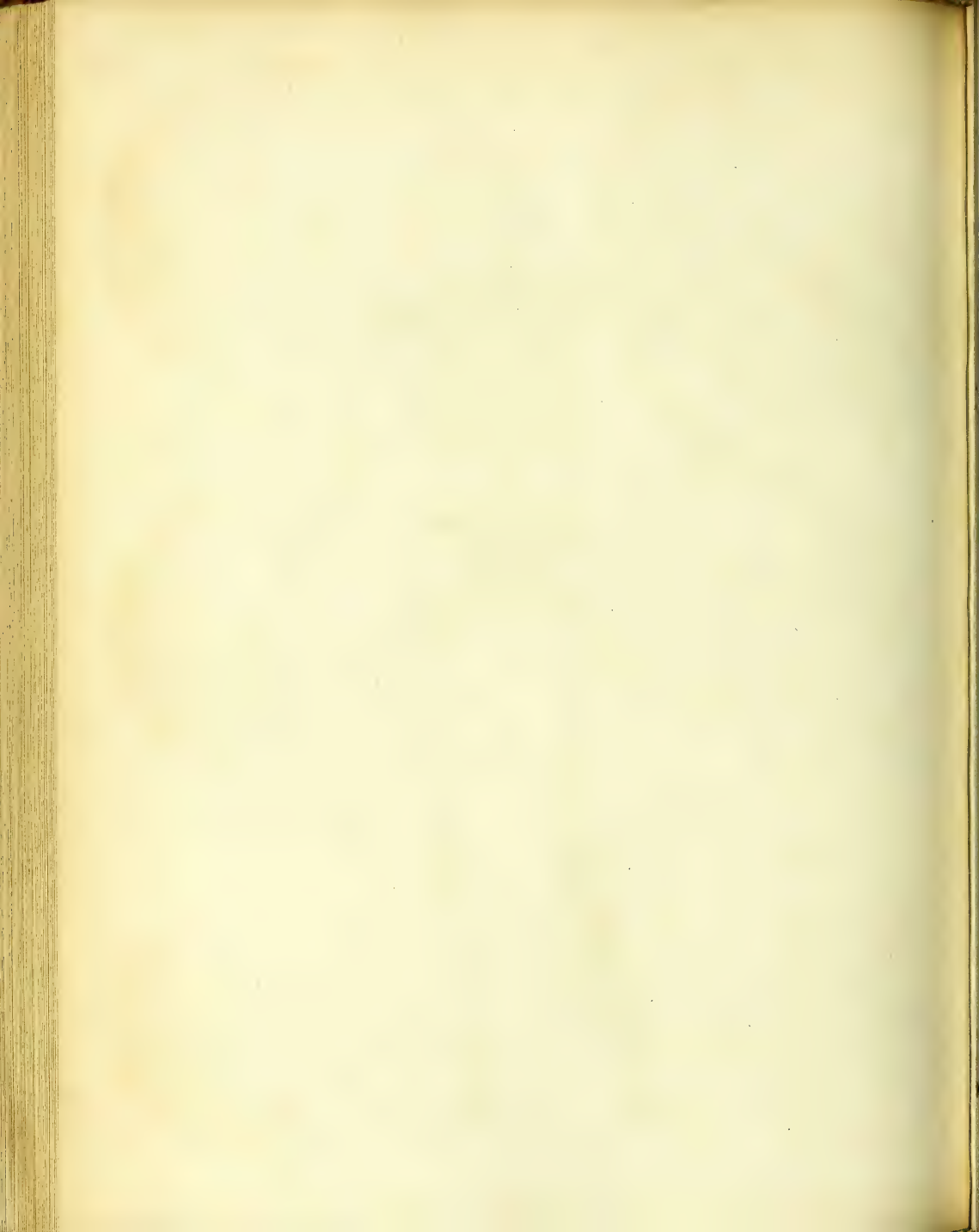


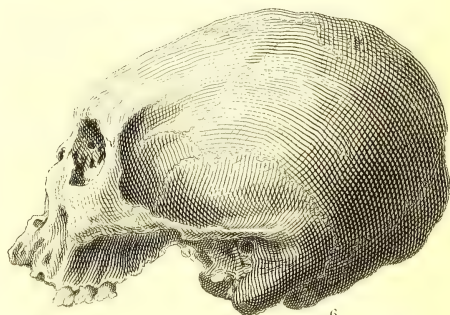
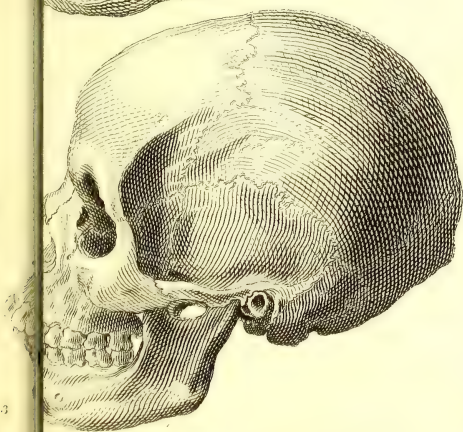
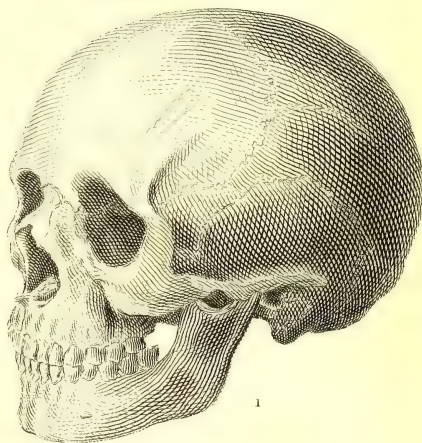
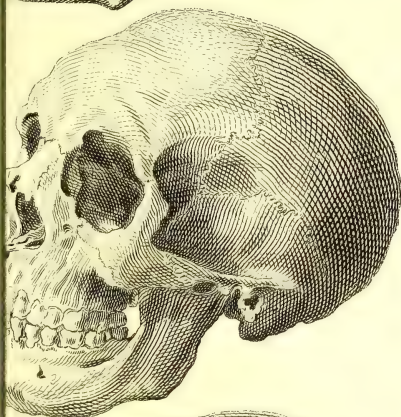
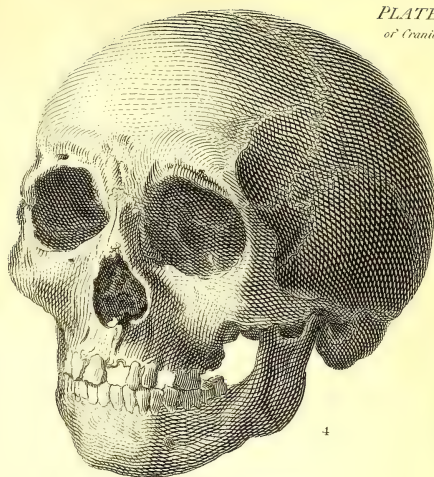
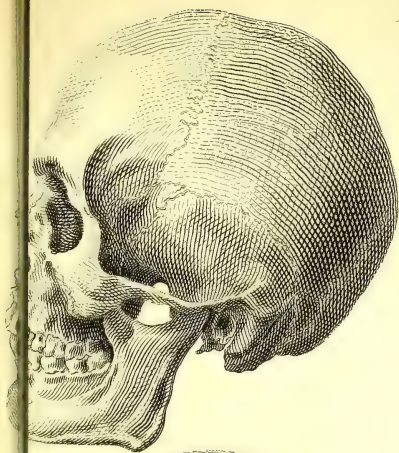






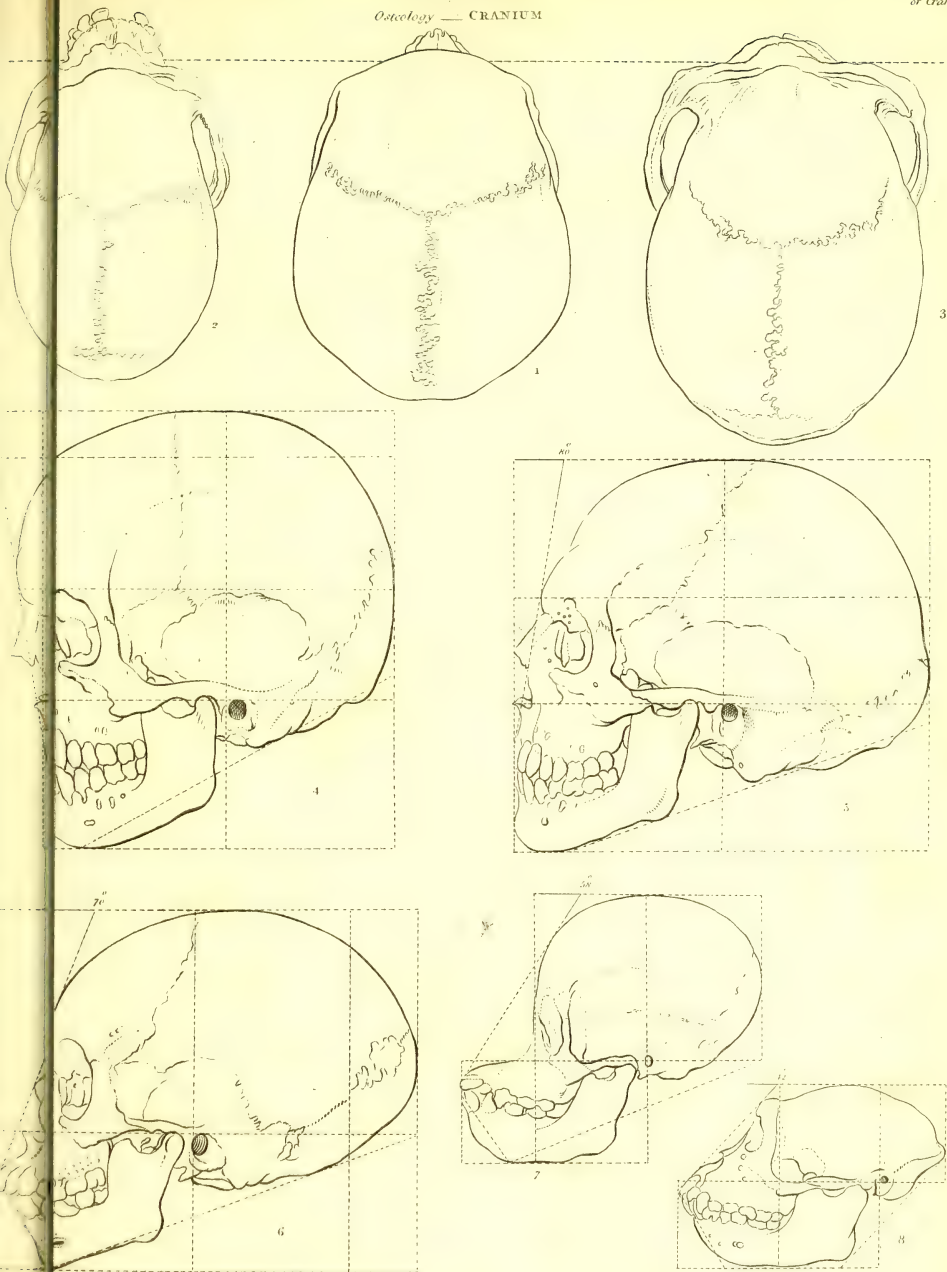






Georgian Female. 1. Turk. 2. Negro. 3. Calmuck. 4. 5. 6. Caribs.





1. Georgian. 2. Negro. 3. Calmuck. 4. Antique. 5. European. 6. Negro. 7. Orang Outang. 8. Monkey.

Published at the An. Acad. Sci. Imper. St. Petersburg. 1871.

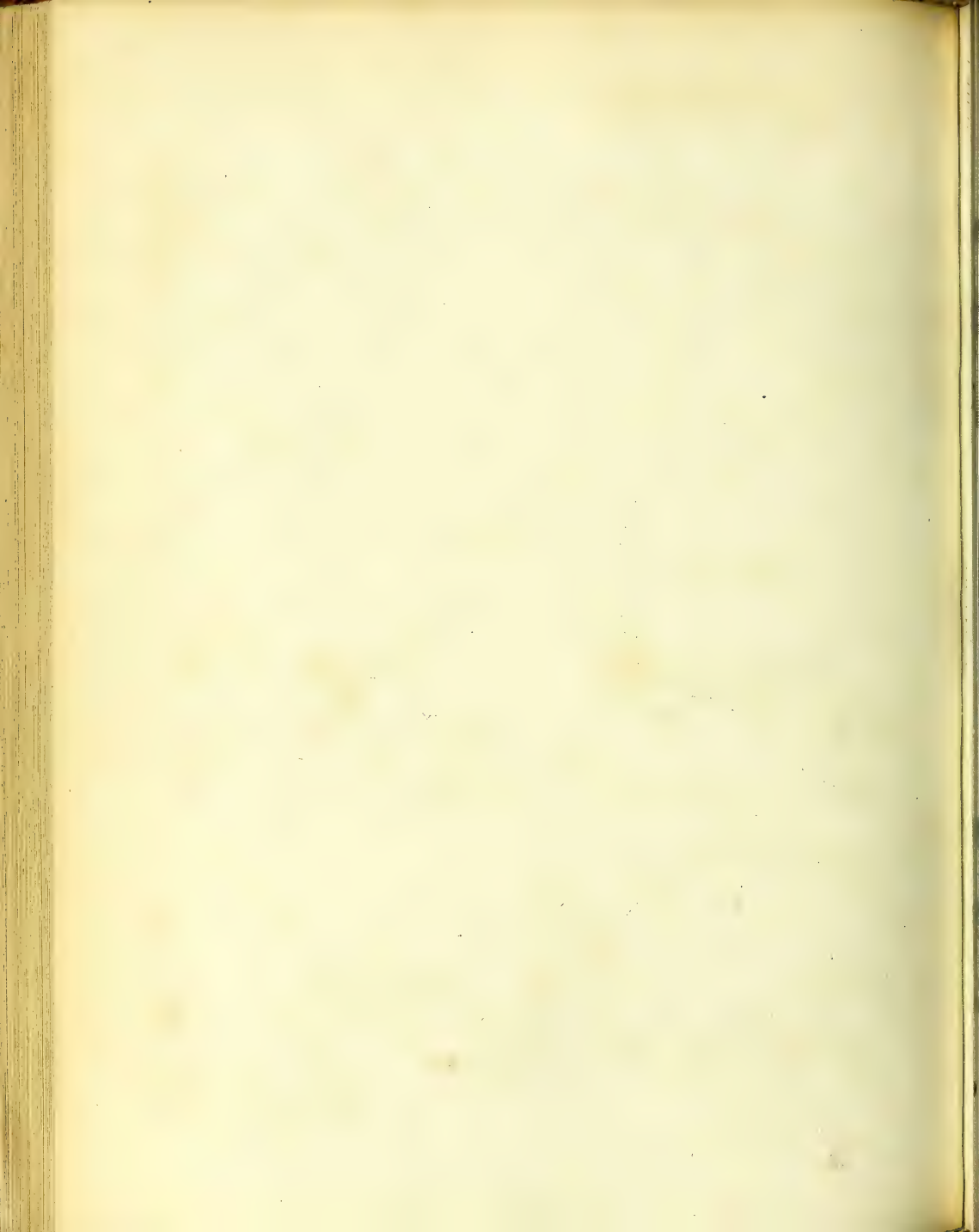


Fig. 1

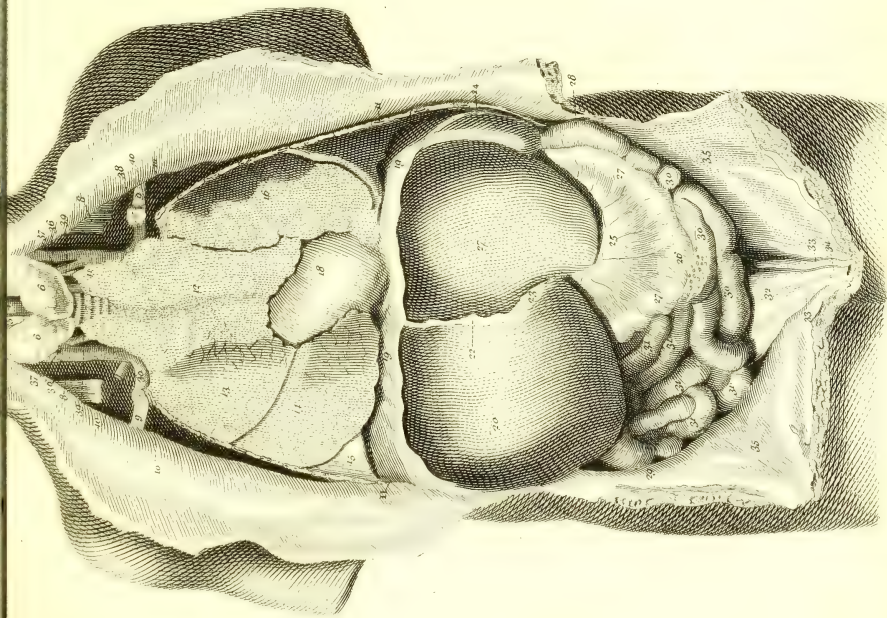
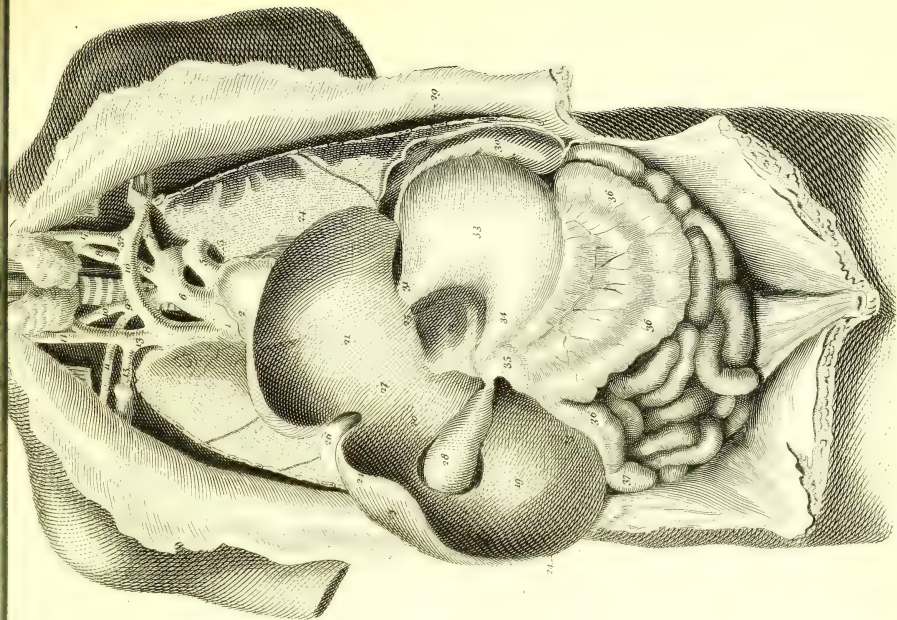


Fig. 2



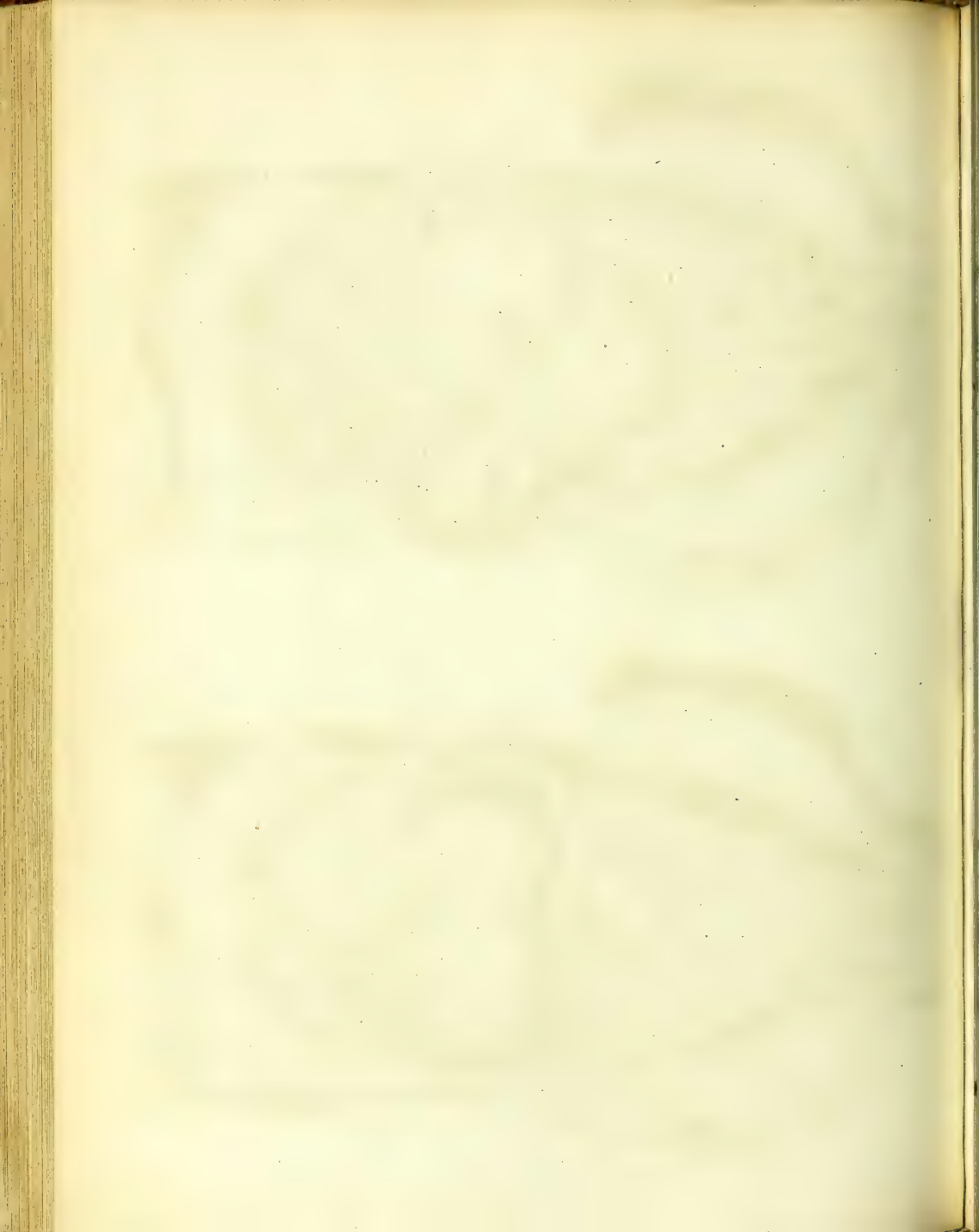


Fig. 1.

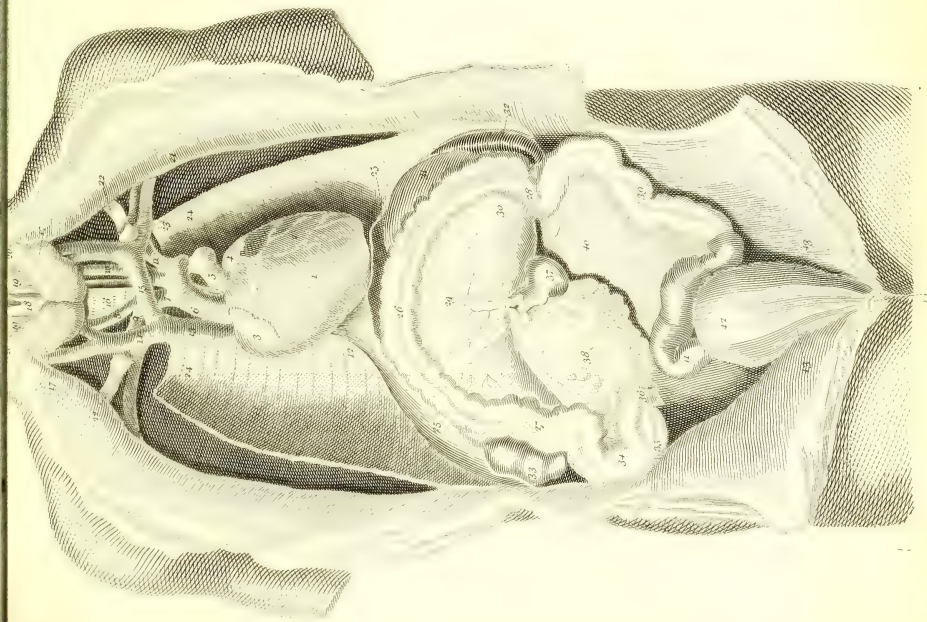
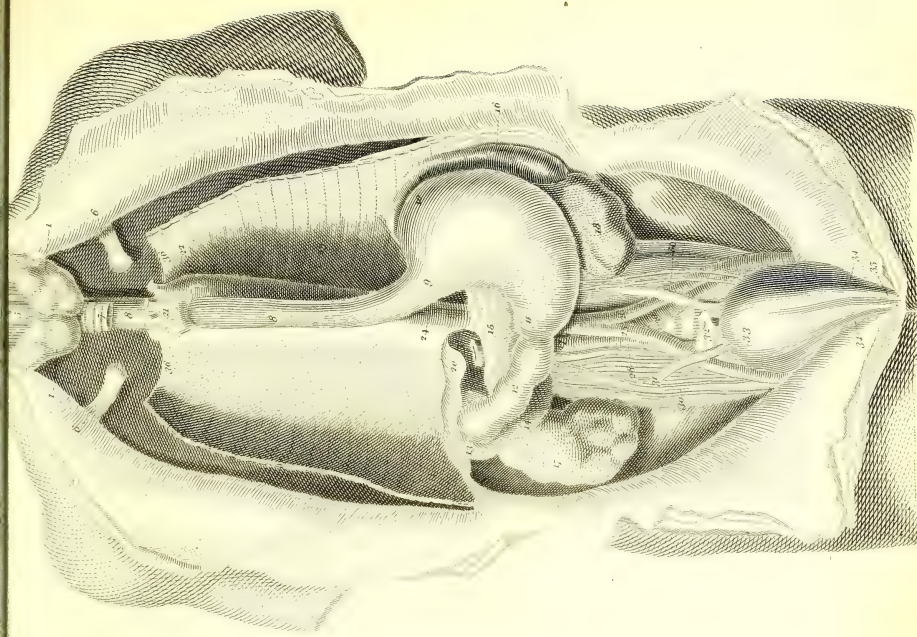


Fig. 2.





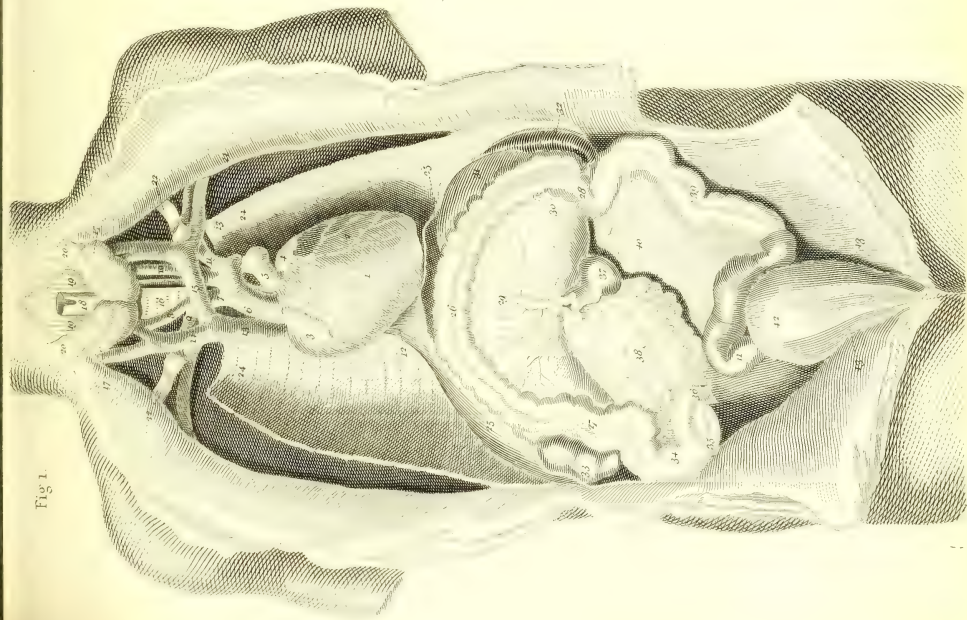


Fig. 1

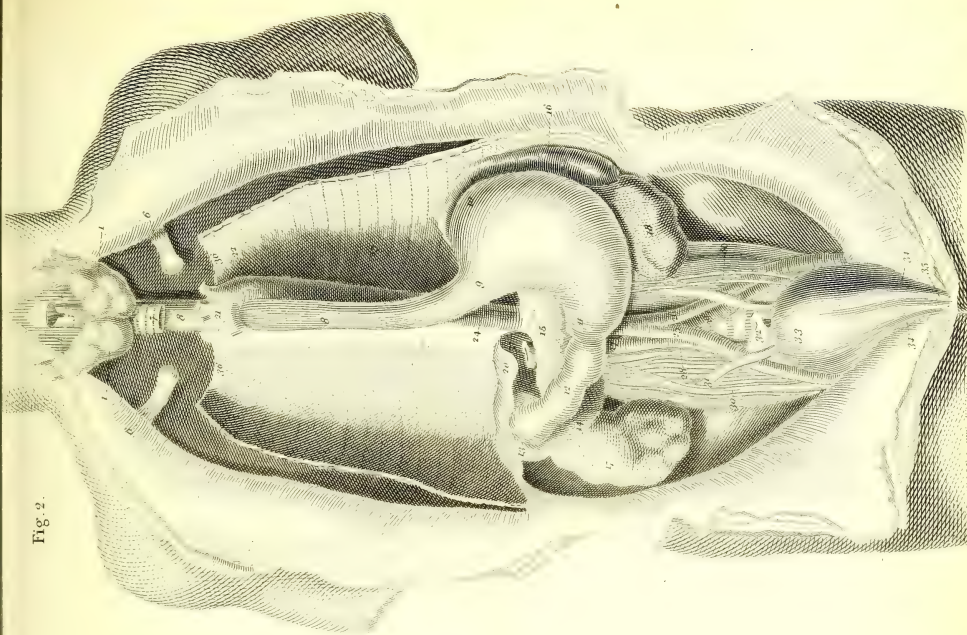


Fig. 2

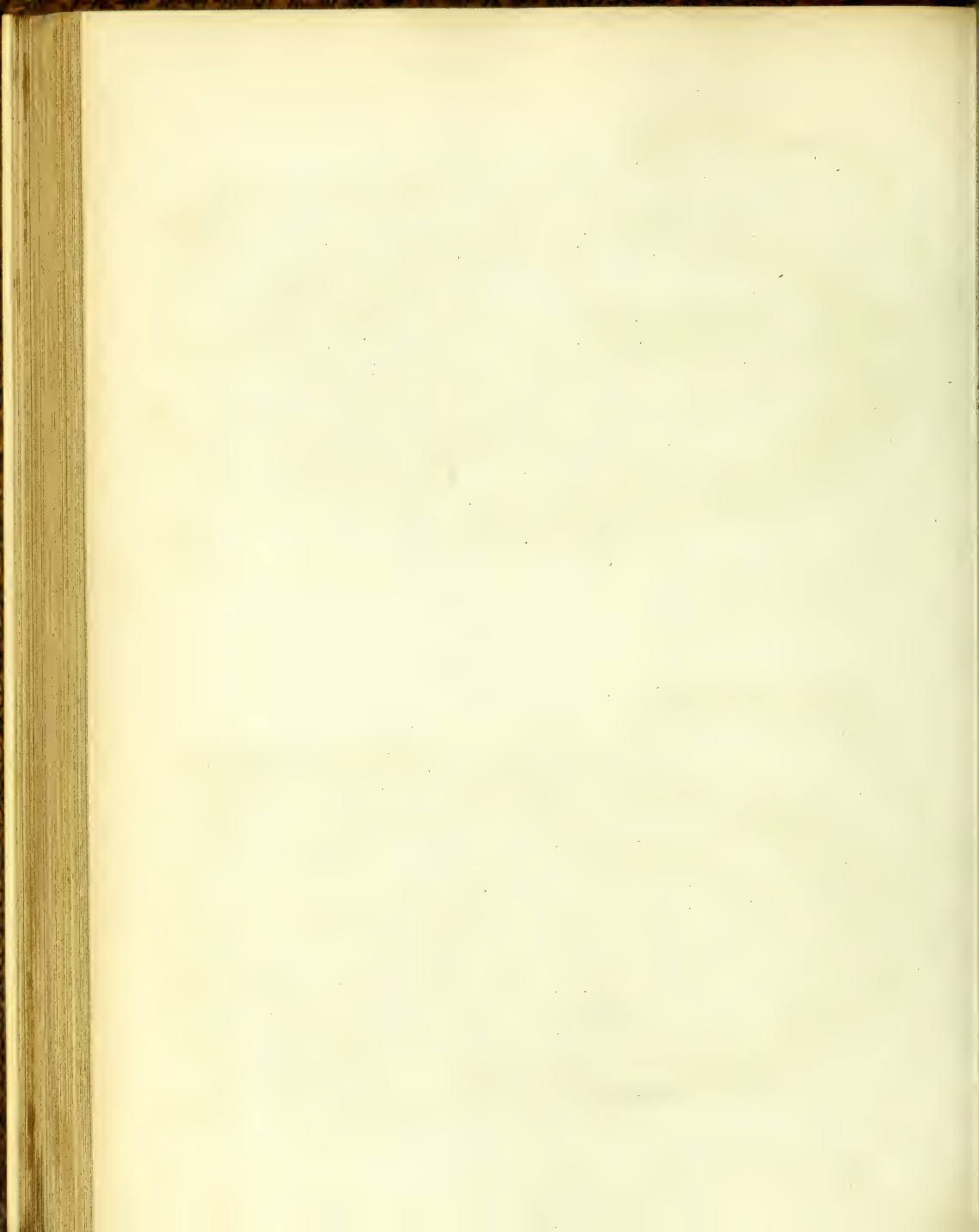


Fig. 1.

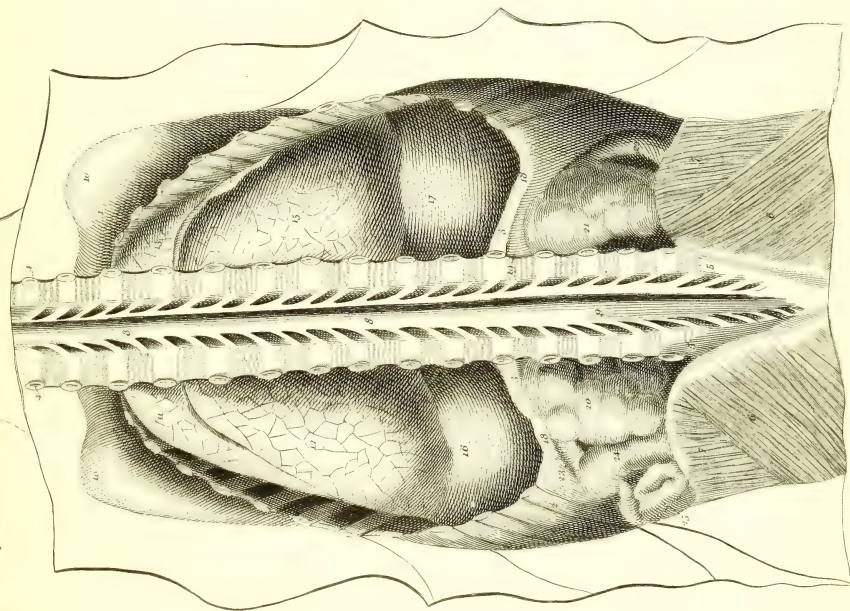
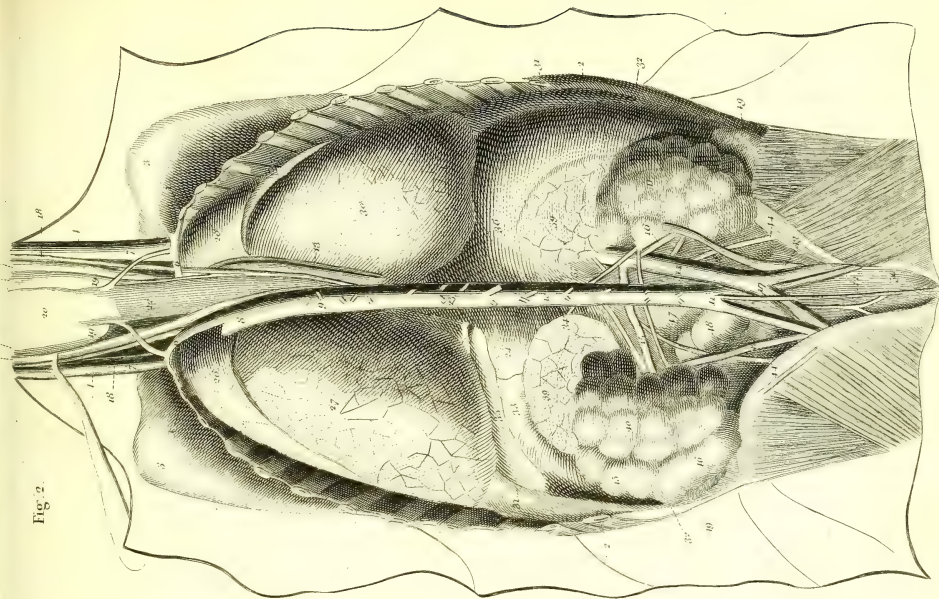


Fig. 2.



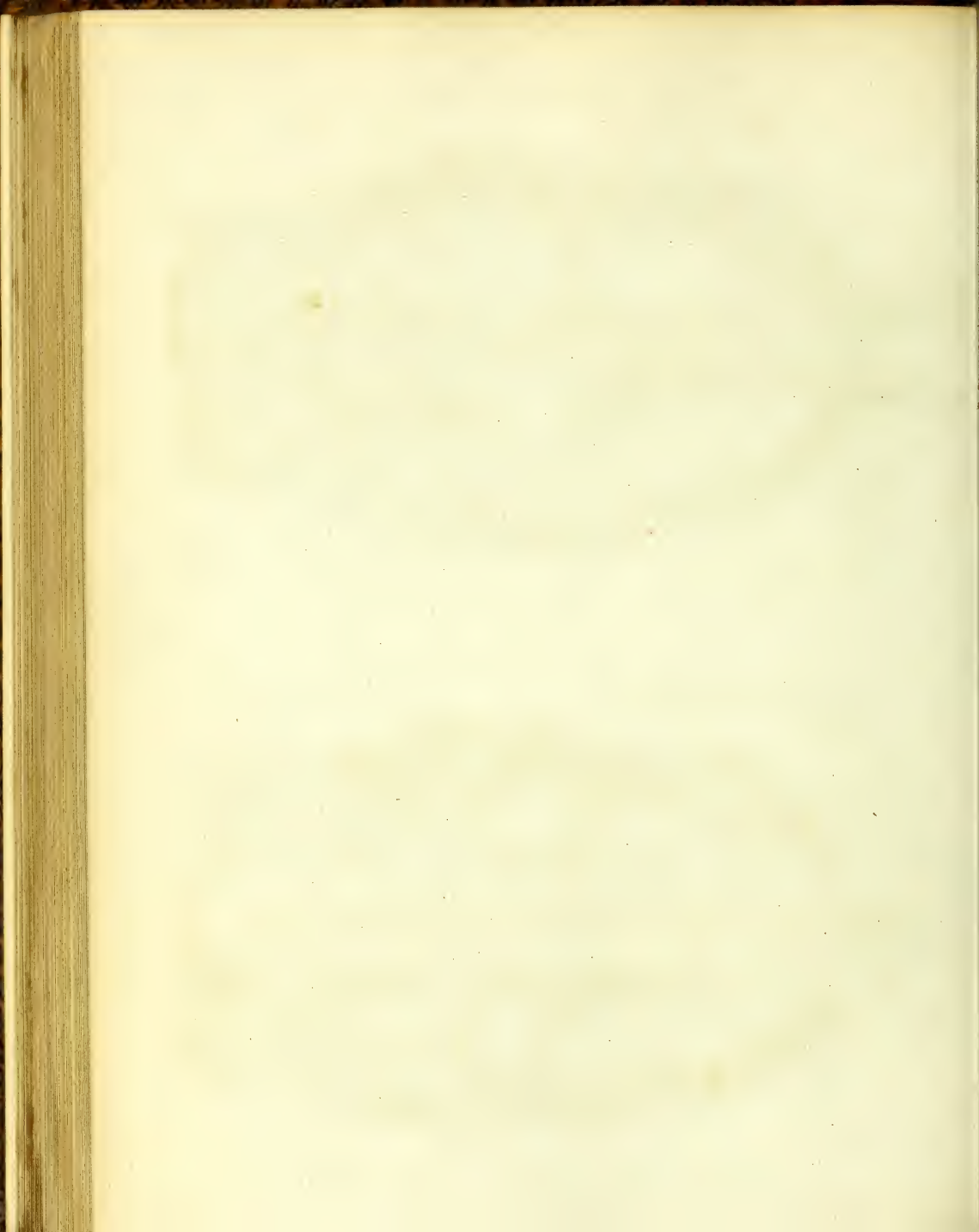
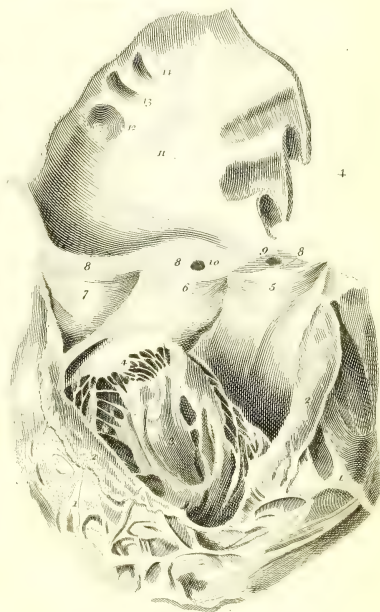
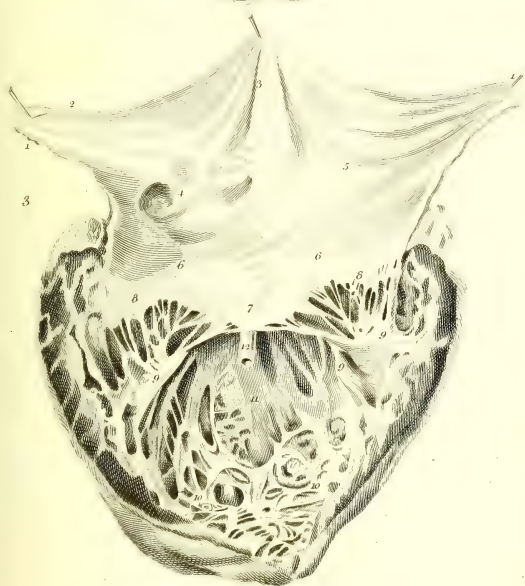
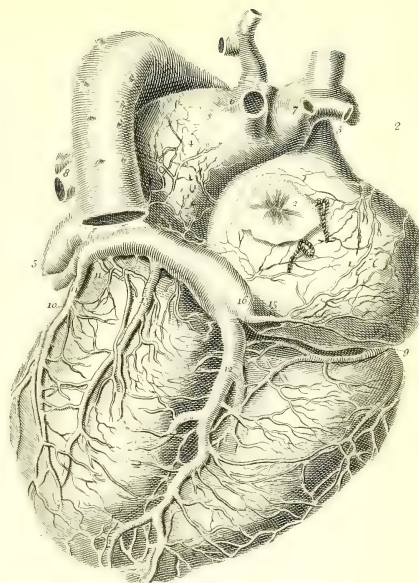
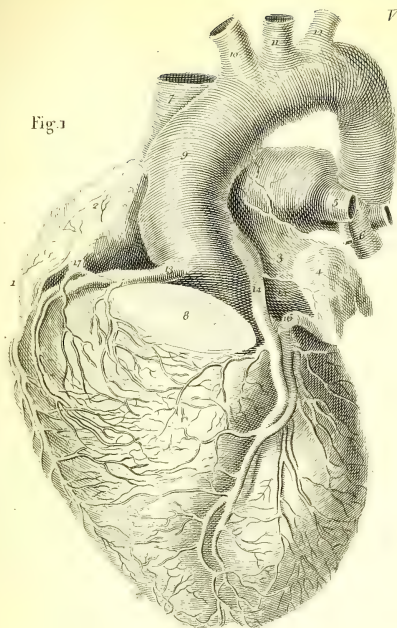
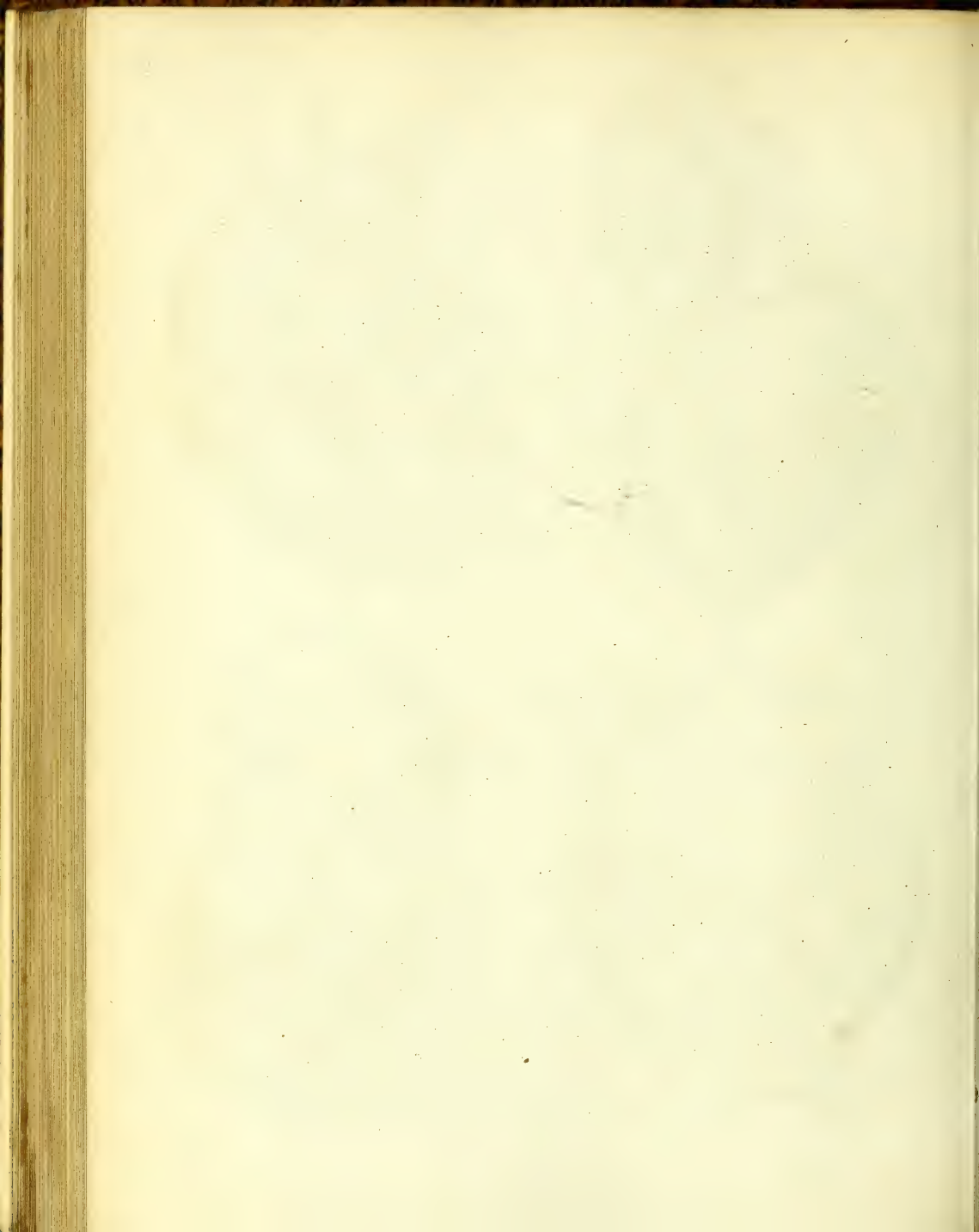


Fig. 1





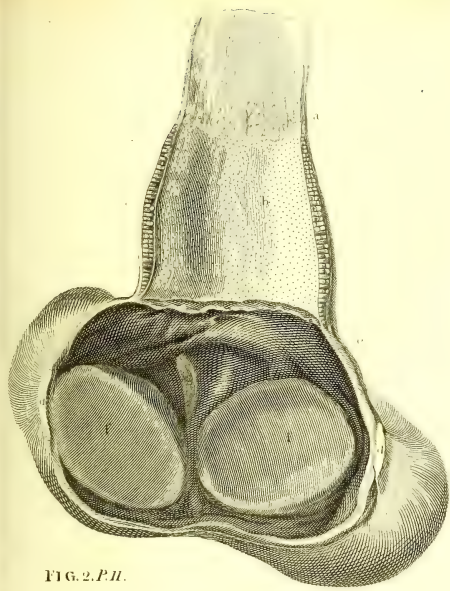


FIG. 2. P.H.

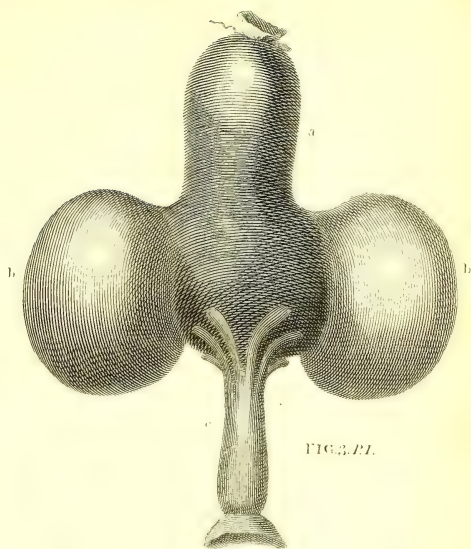


FIG. 3. P.H.



FIG. 2. P.H.



FIG. 1. P.H.

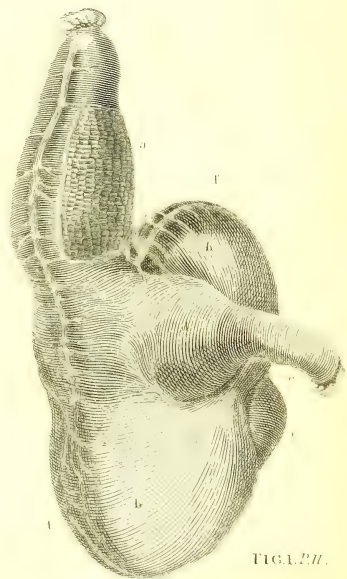


FIG. 1. P.H.

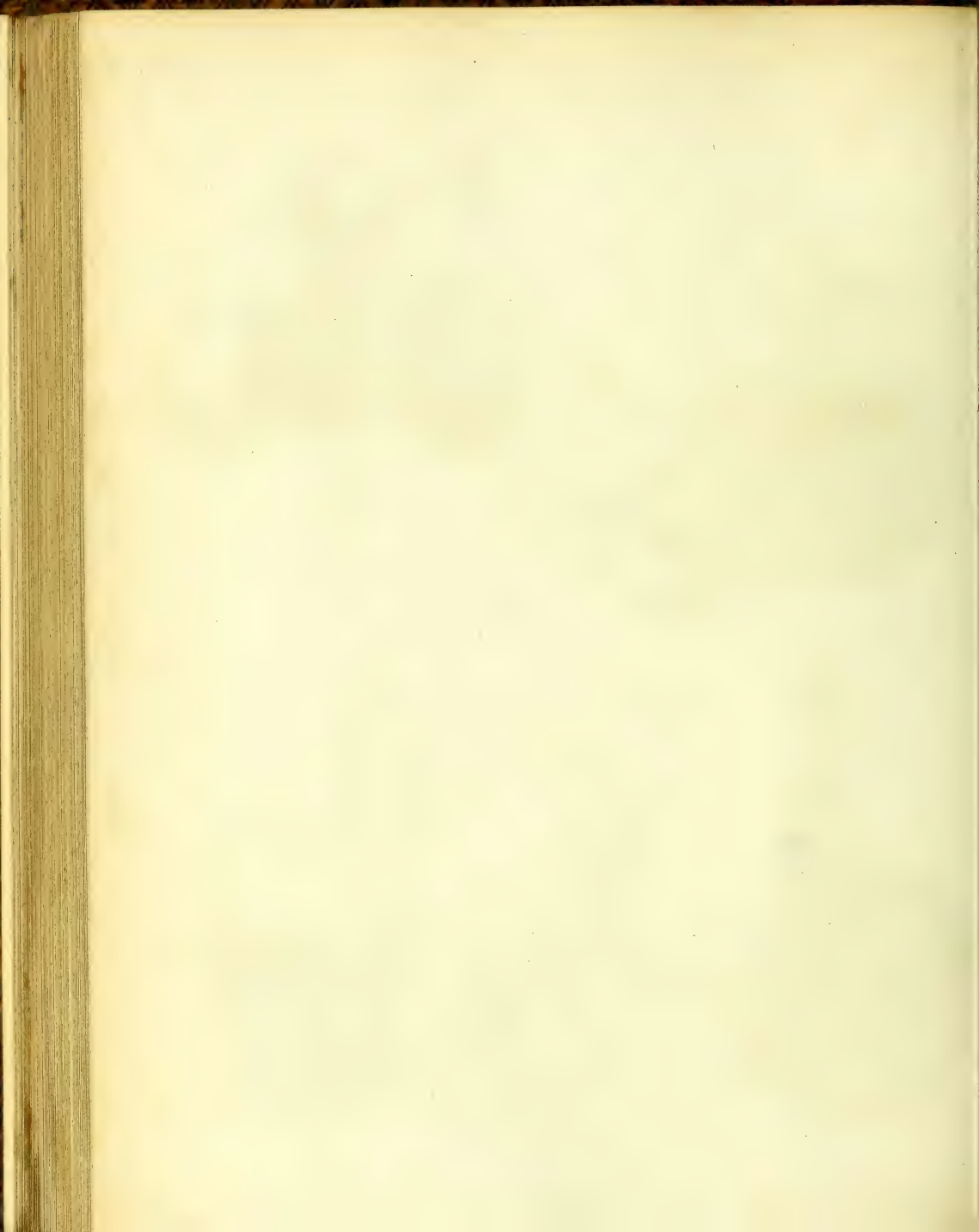
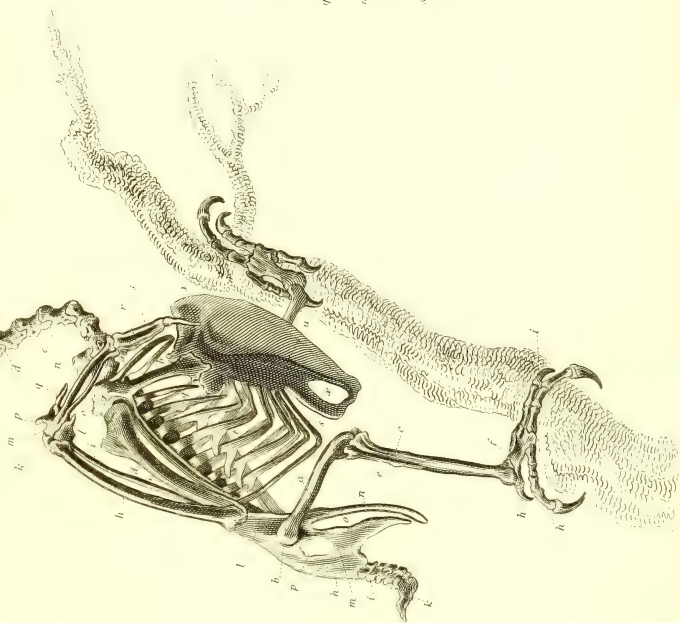
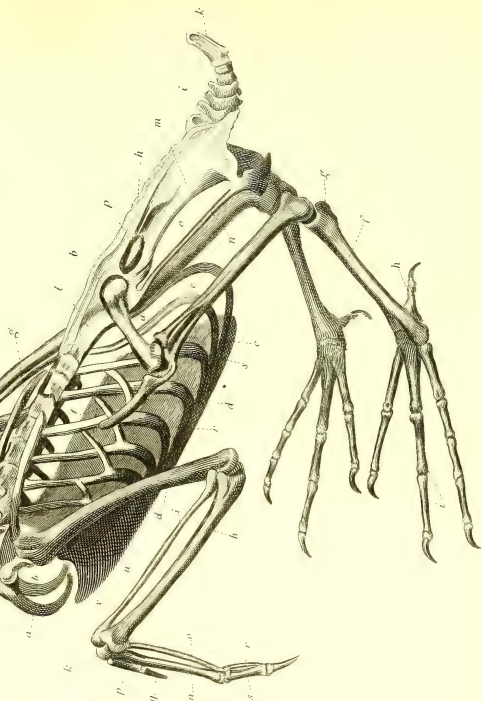


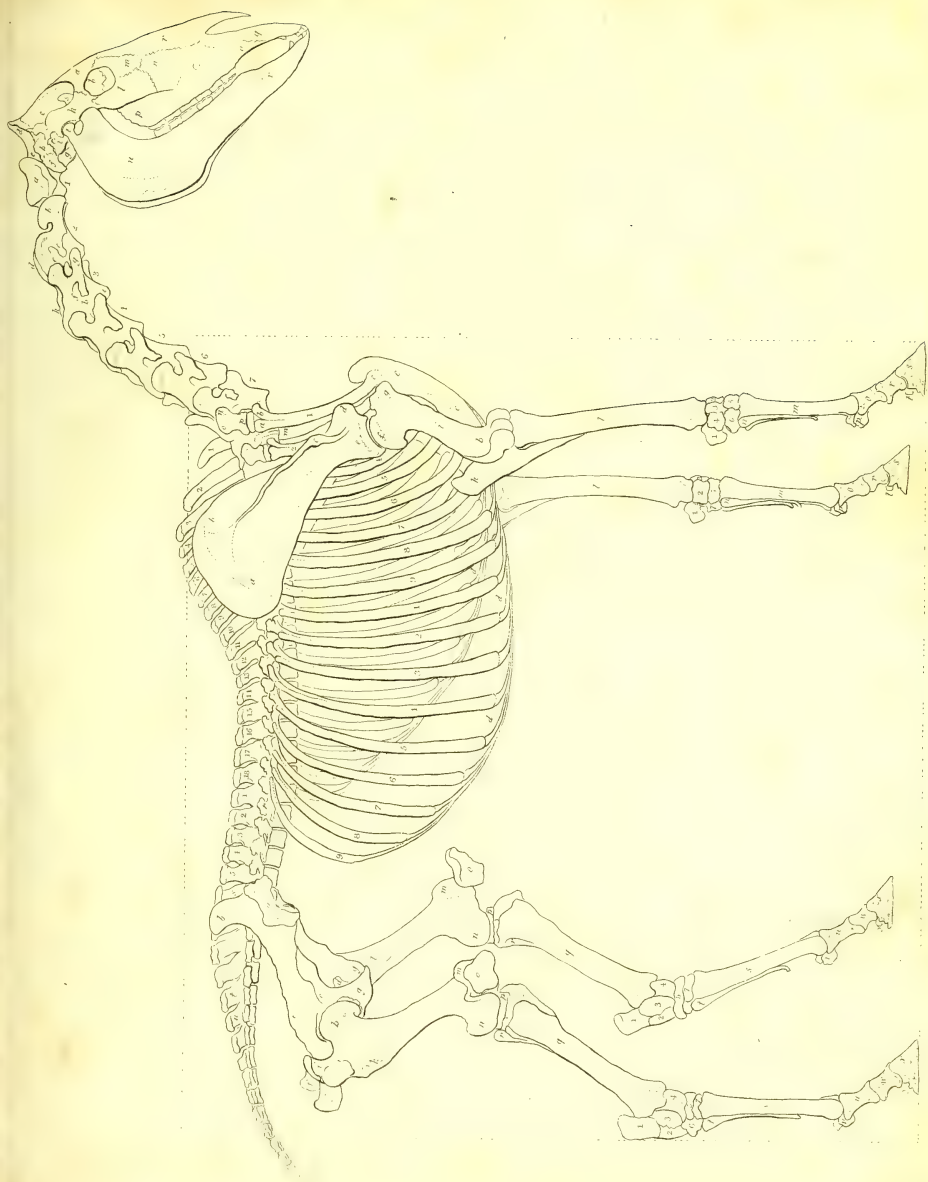
FIG. I.

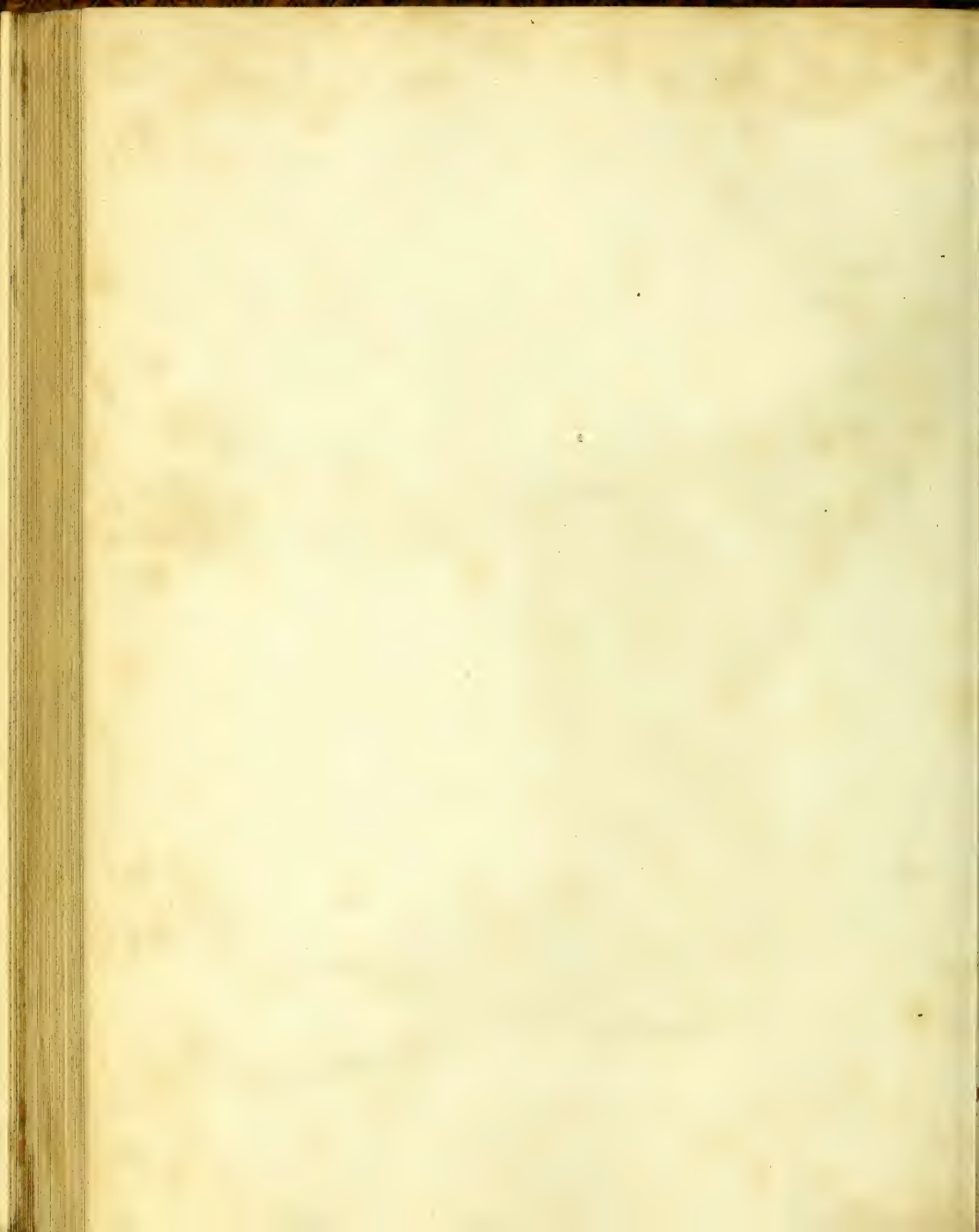


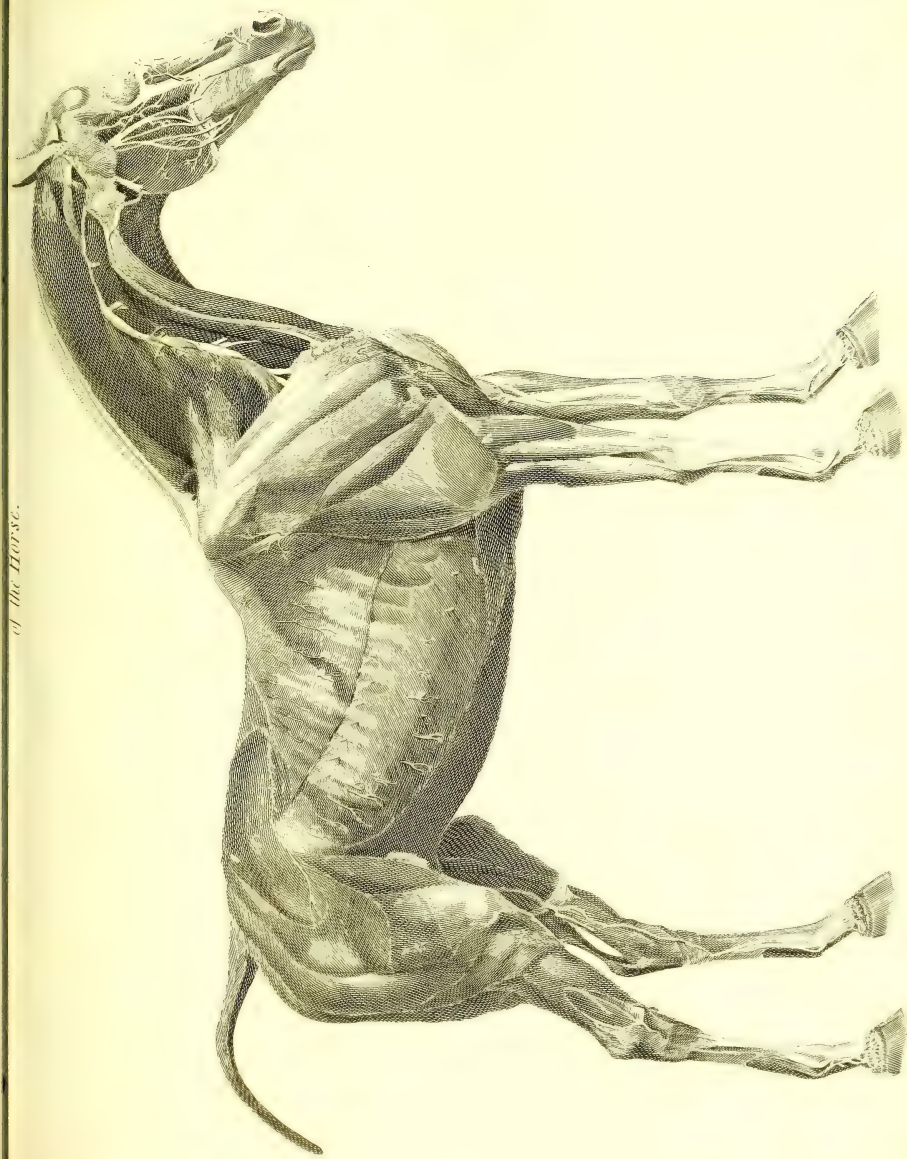
FIG. II.



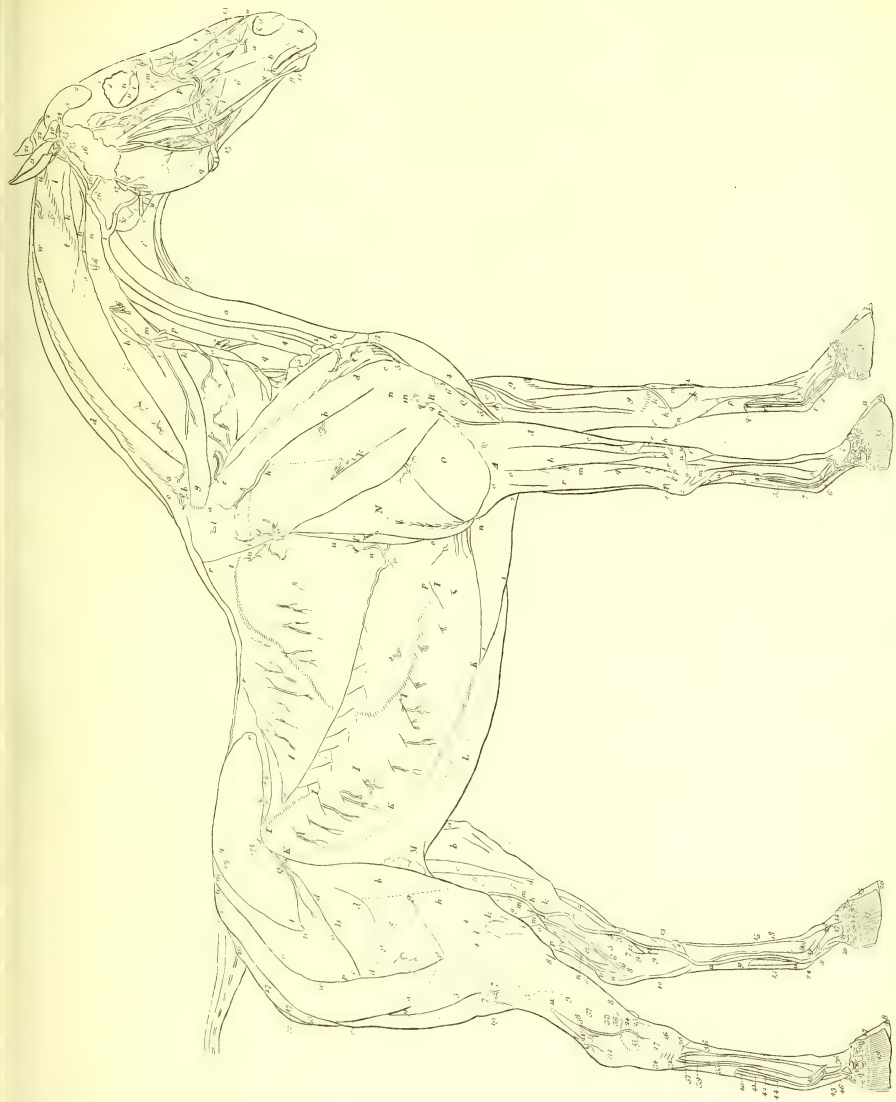


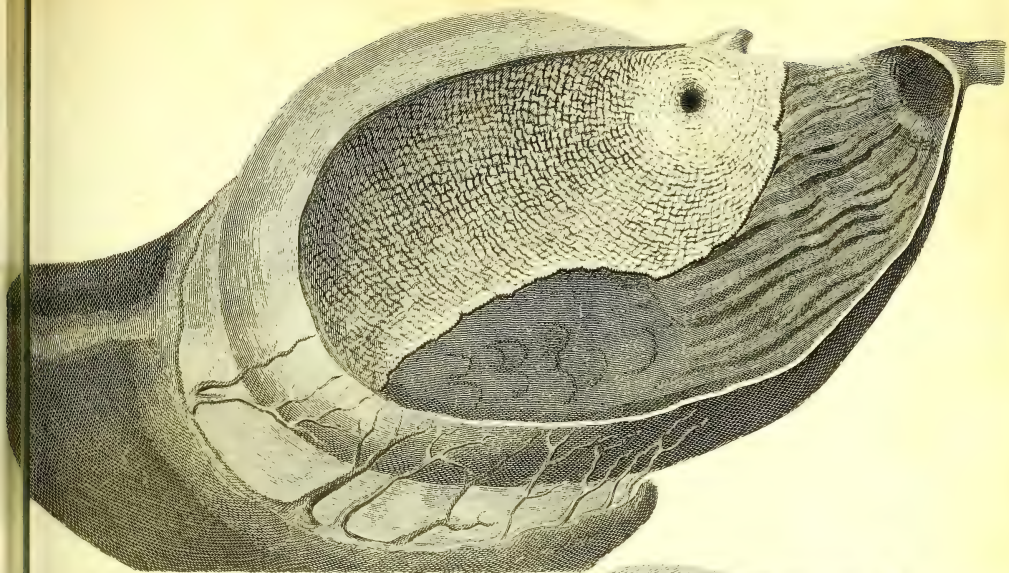




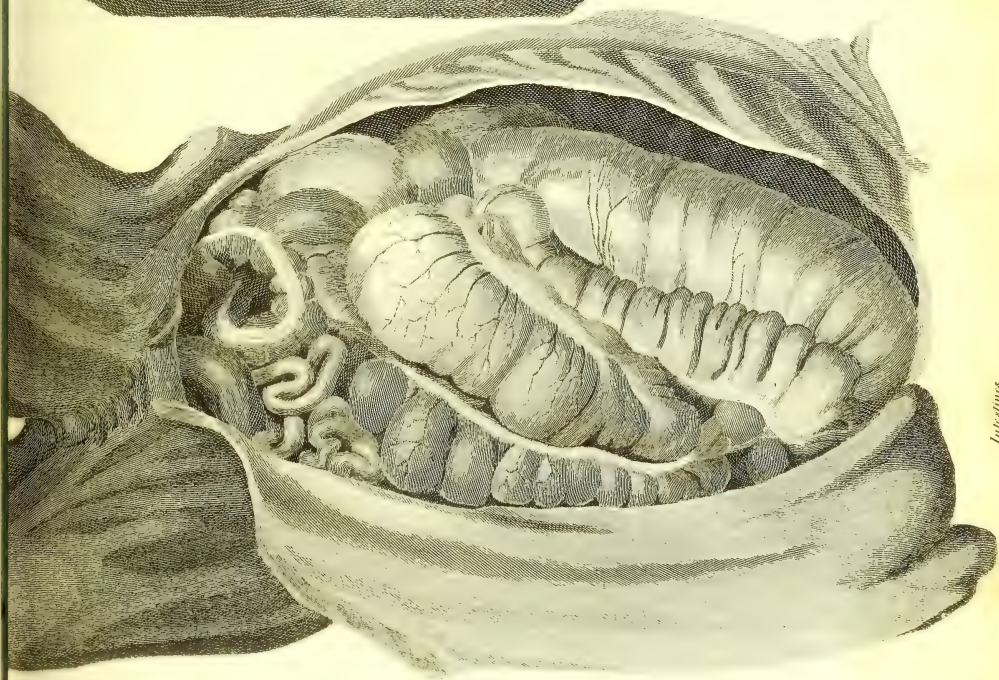


of the Horse.





Stomach.



Intestine.

Fig. 4.
h^o prof.

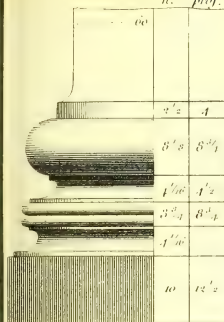


Fig. 3.
h^o prof.

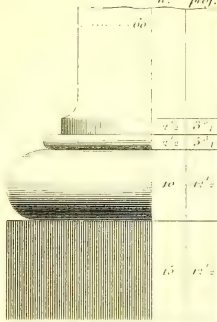


Fig. 2.

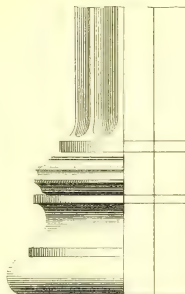


Fig. 1.

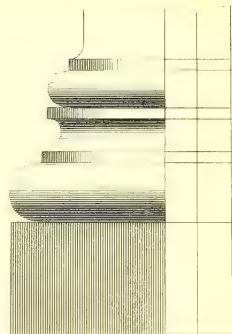


Fig. 7.

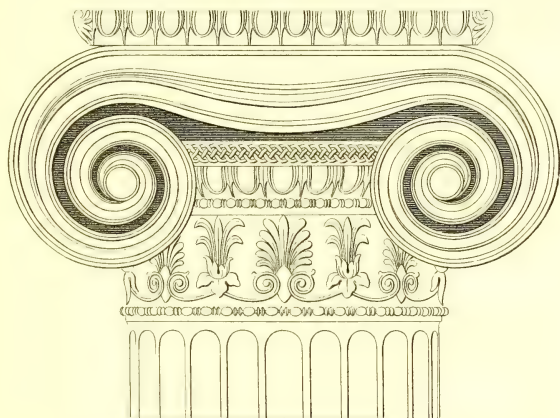


Fig. 6.

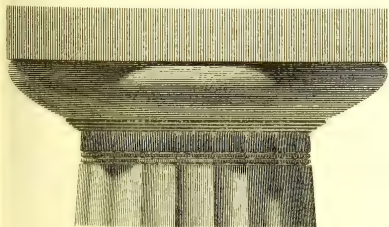


Fig. 5.

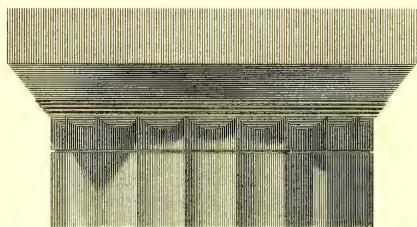


Fig. 1. Attic Base from the remains of the Temple of Jupiter Olympius at Athens.

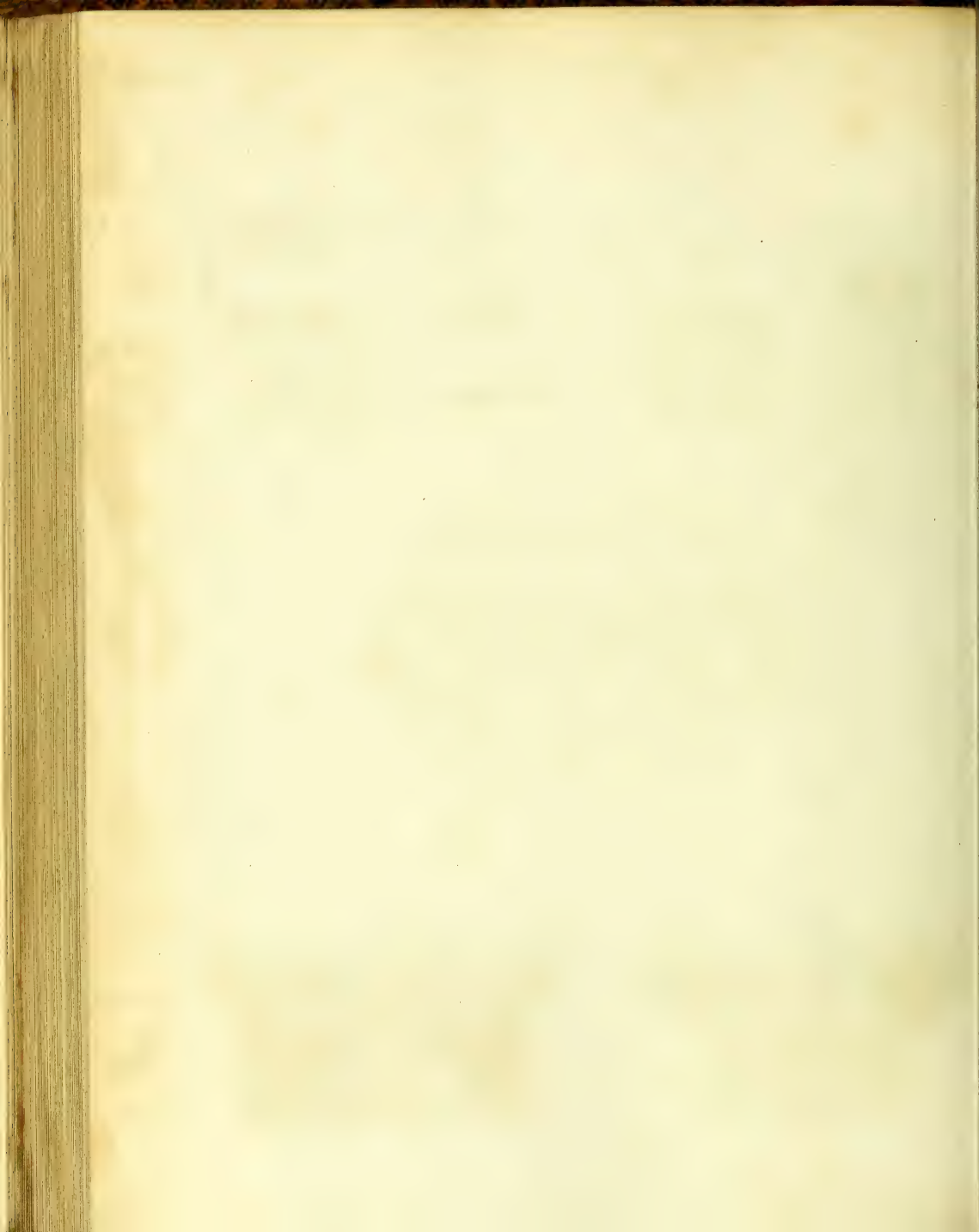
Fig. 2. Attic Base from the Temple of Minerva Polias at Athens.

Fig. 3. Doric Base & Fig. 4. Ionic Base according to Vitruvius.

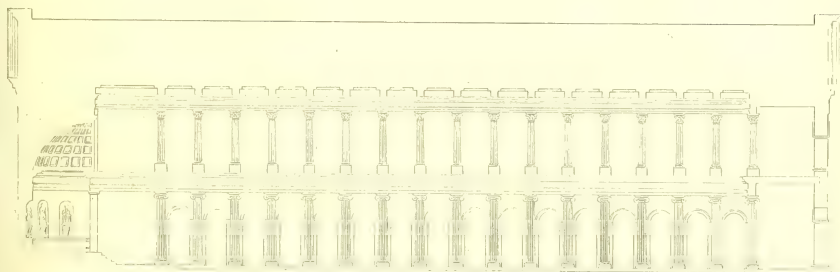
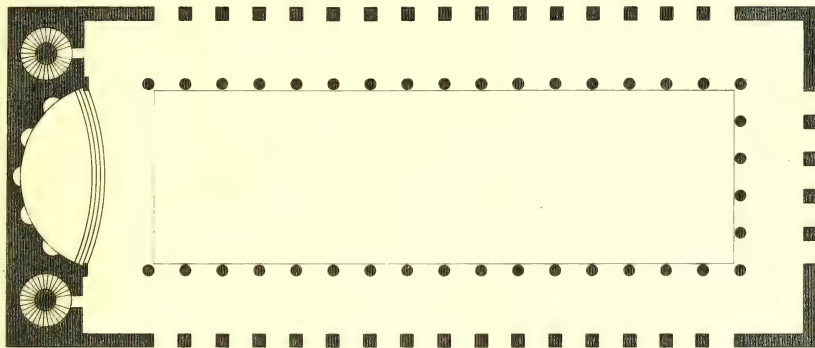
Fig. 5. Doric Capital from the portico of Philip in the Island of Delos.

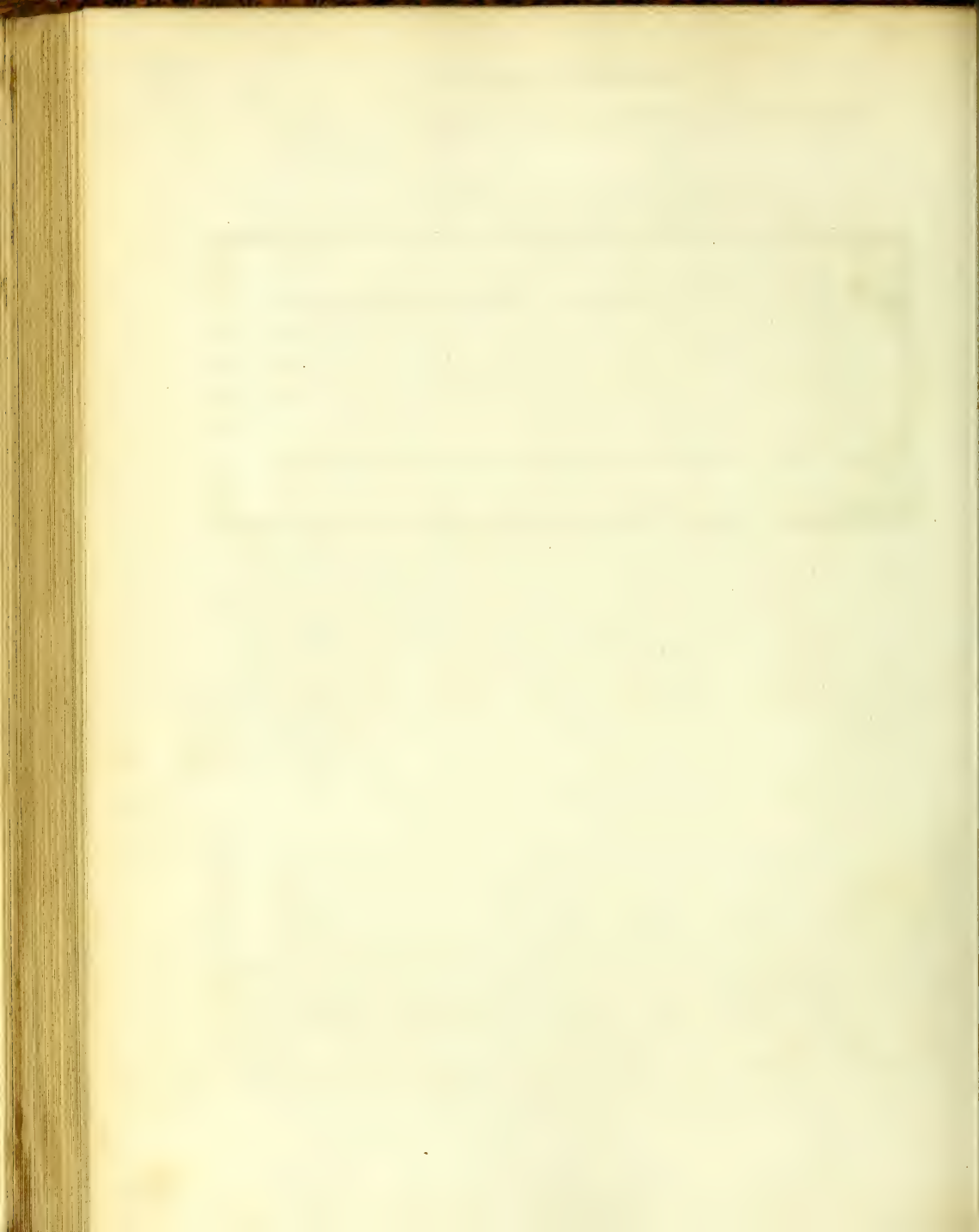
Fig. 6. Doric Capital from the Temple at Coriath.

Fig. 7. Ionic Capital from the Temple of Minerva Polias at Athens.



ROMAN BASILICA, FROM THE DESCRIPTION OF VITRUVIUS.



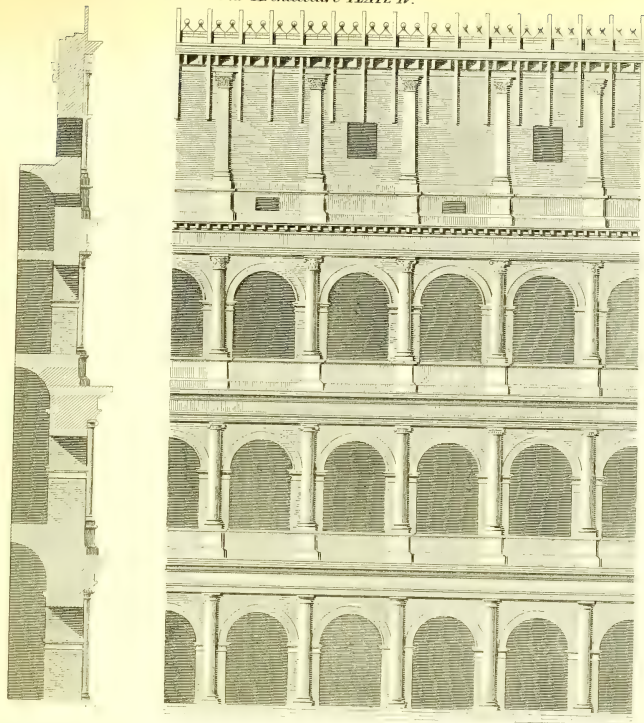


ARCHITECTURE

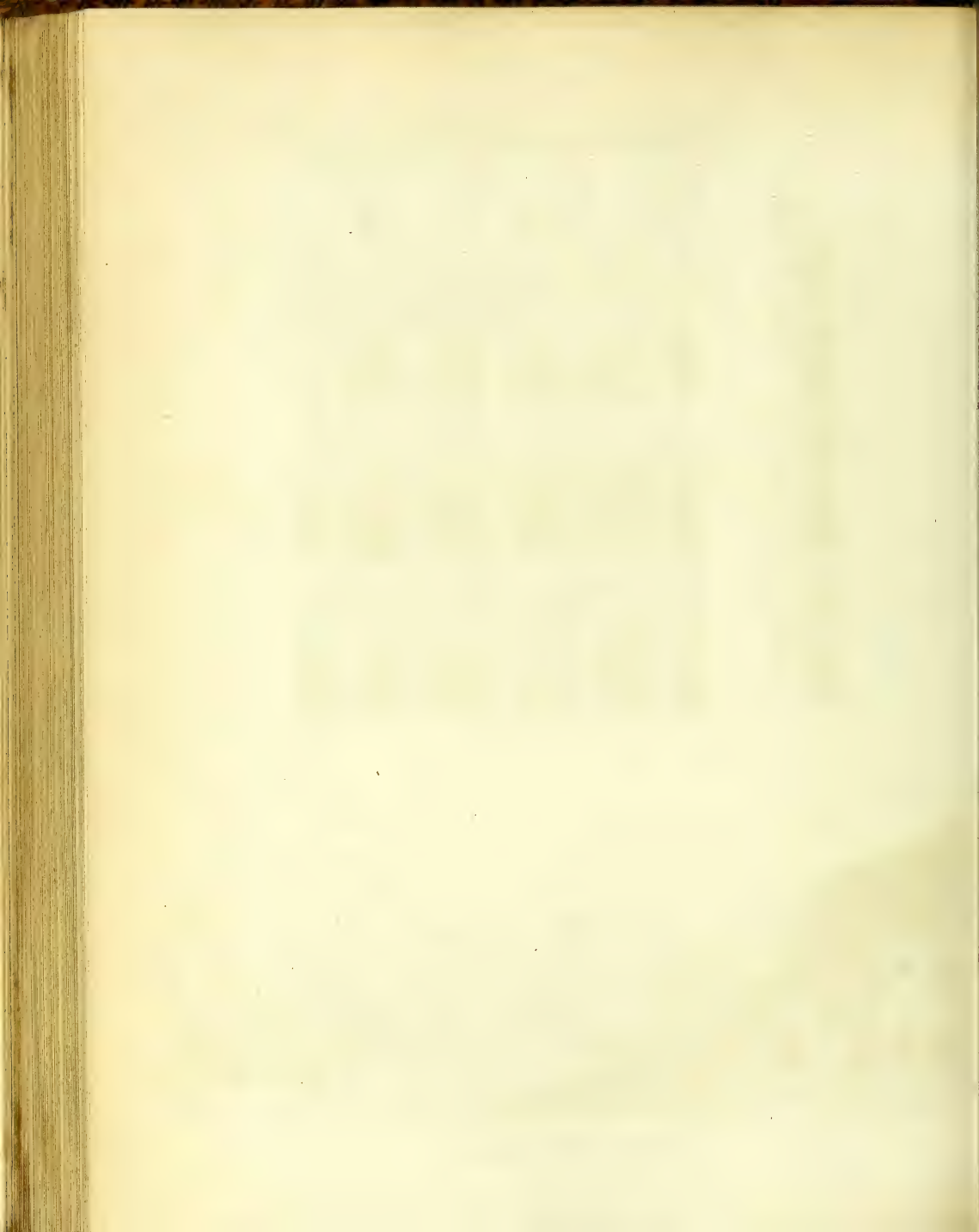
AMPHITHEATRE.

PLATE. III.

N^o 1. Referred to as Architecture PLATE IV.

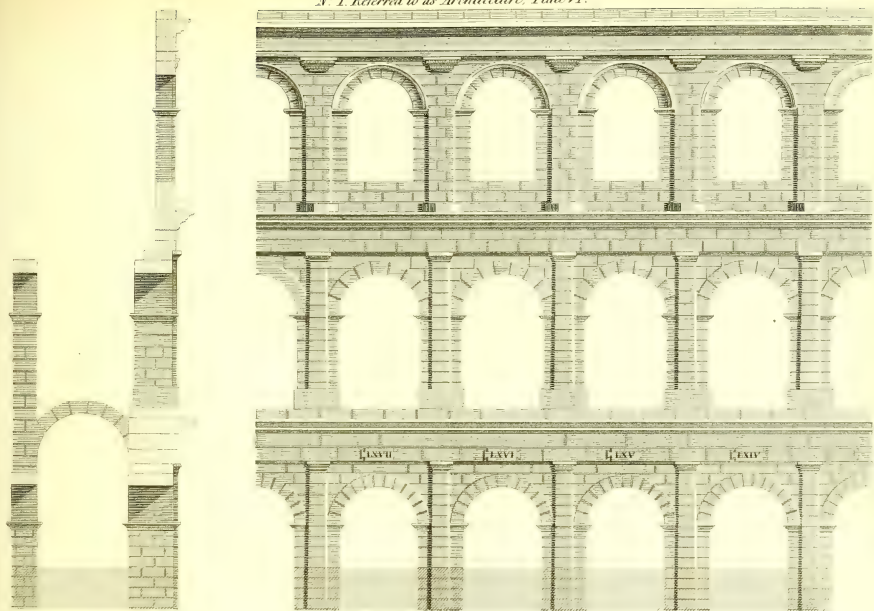


N^o 2. Referred to as Architecture PLATE V.

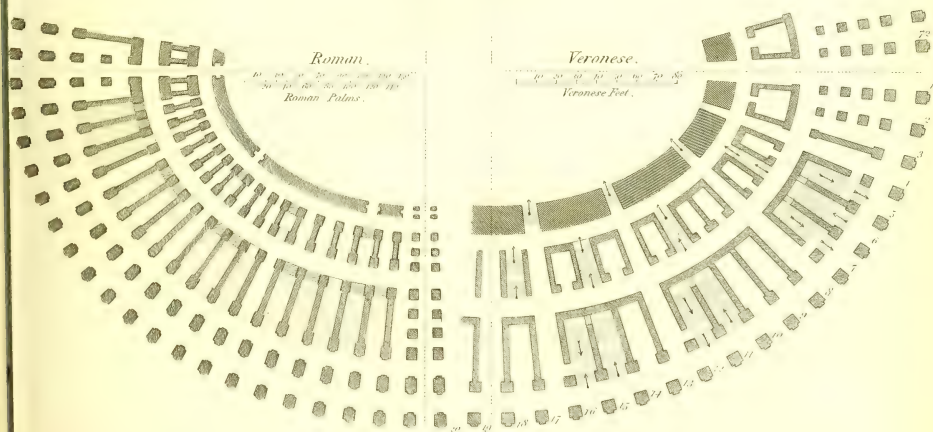


AMPHITHEATRE.

N^o 1. Referred to as *Architecture*, Plate VI.



N.º 2. Referred to as Architecture, Plate VII.

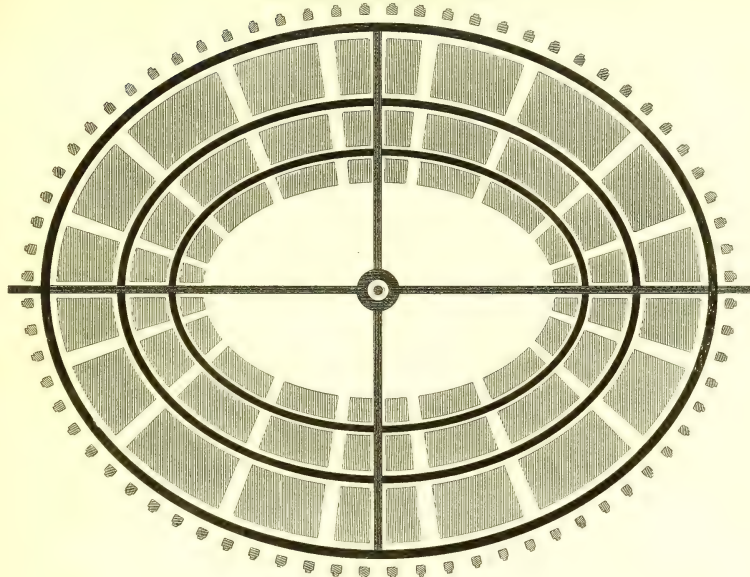




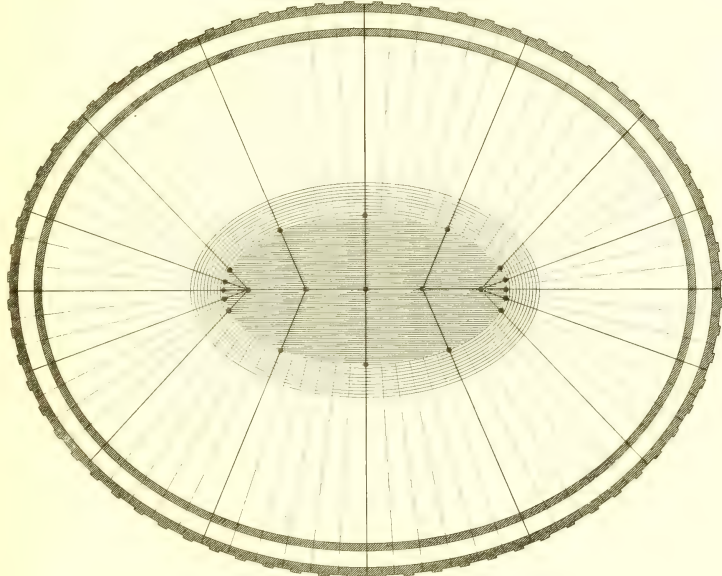
ARCHITECTURE.
AMPHITHEATRE.

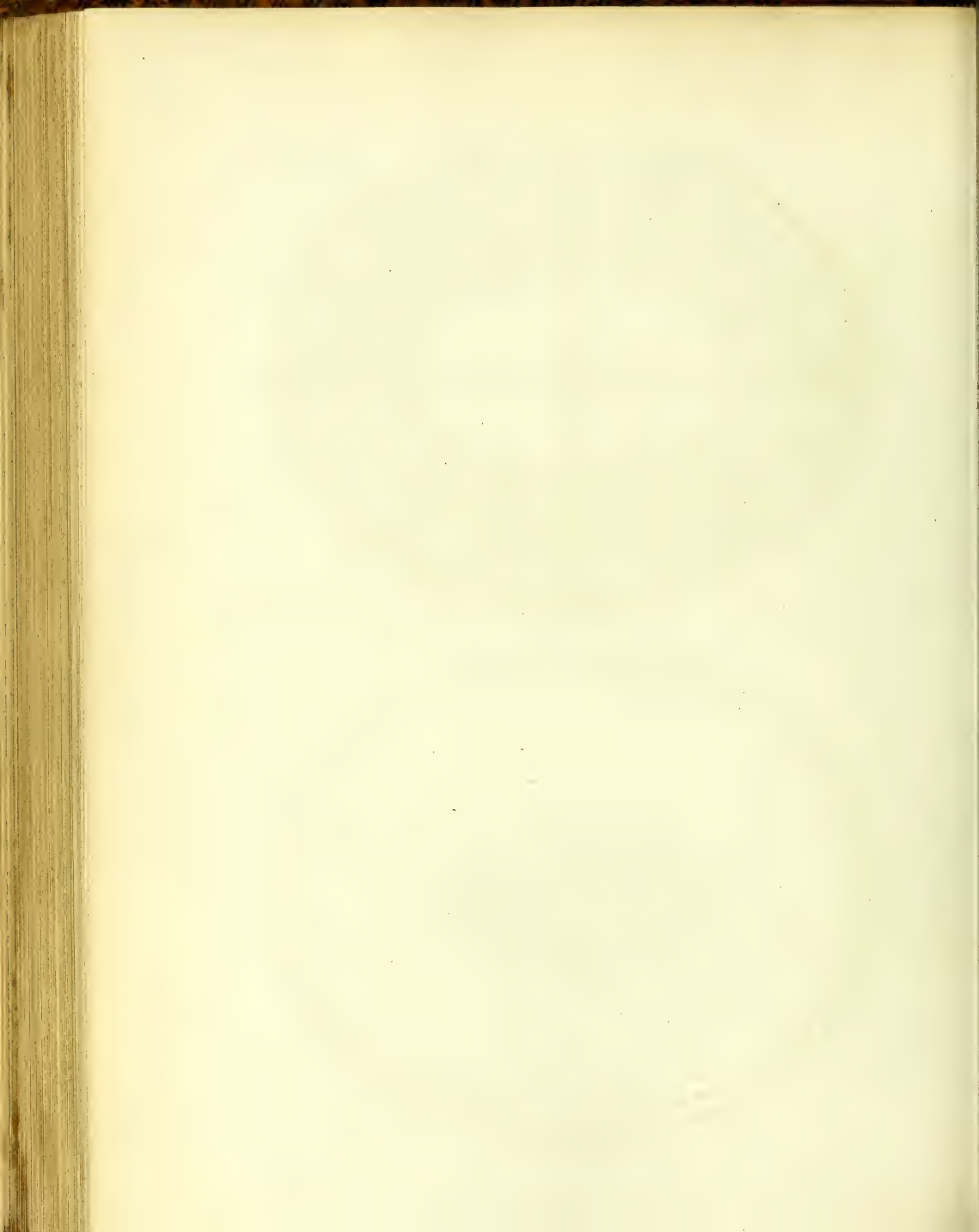
PLATE V.

N^o 1 Referred to as Architecture Plate VIII.

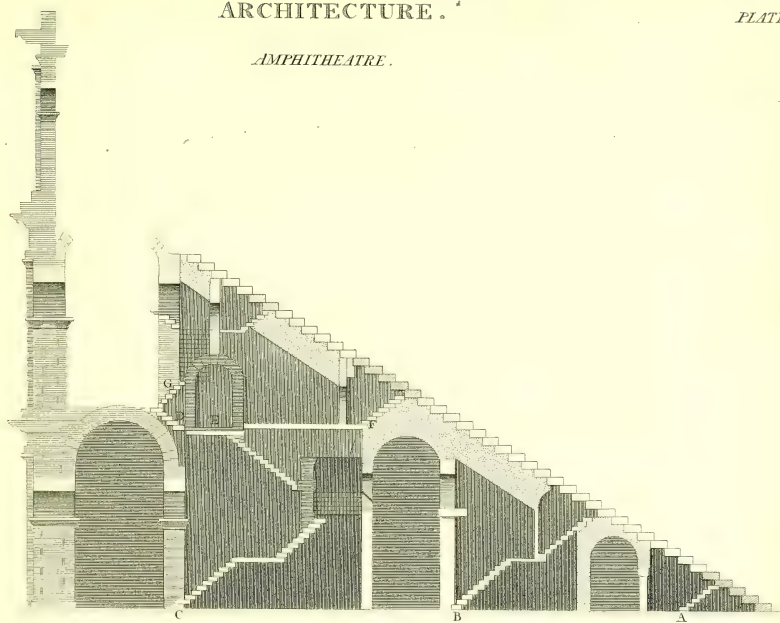


N^o 2 Referred to as Architecture Plate IX.

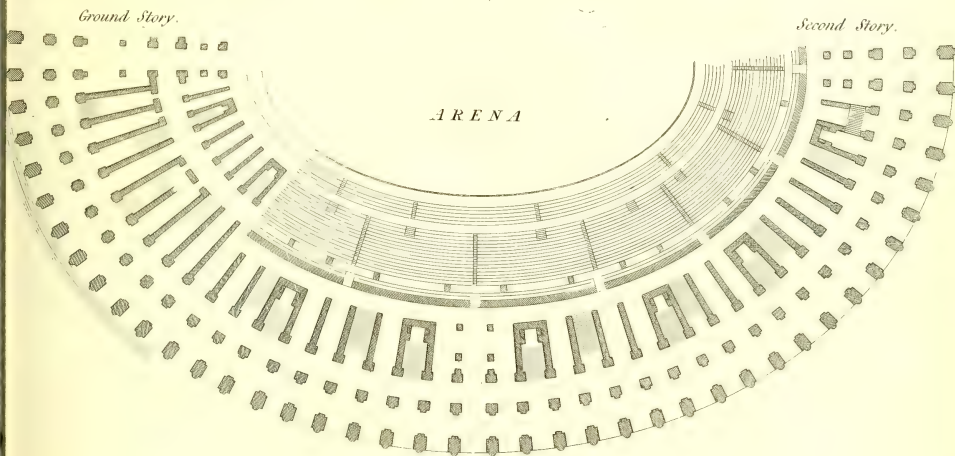




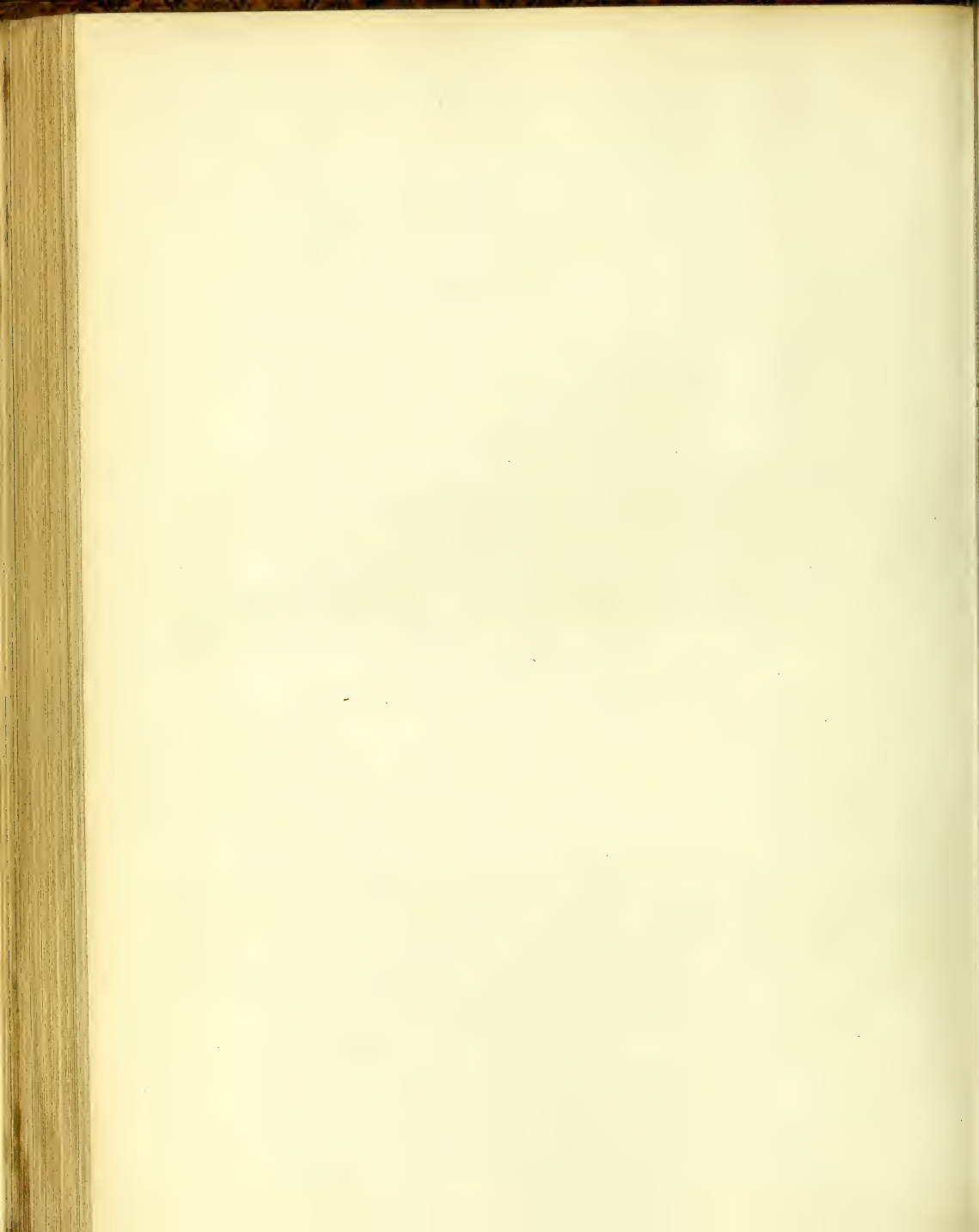
AMPHITHEATRE.



N° 1. Referred to as Architecture PLATE II.



N° 2 Referred to as Architecture PLATE III.



ARCH.

Fig. 1.

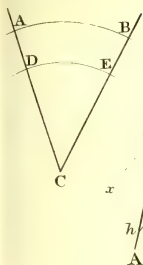


Fig. 2.

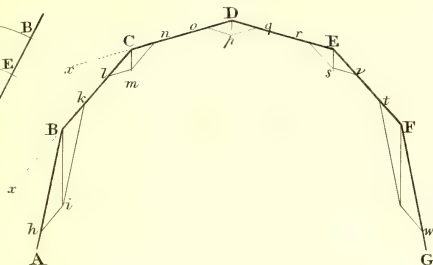


Fig. 3.

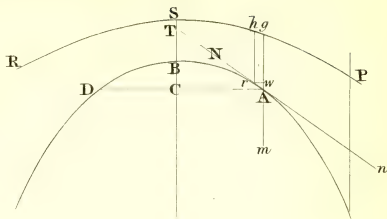


Fig. 4.

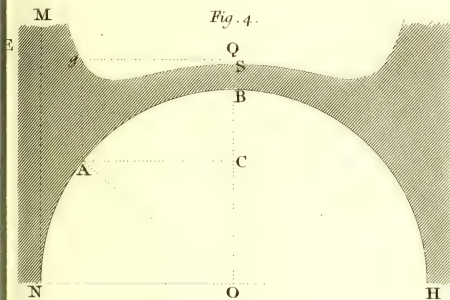


Fig. 5.

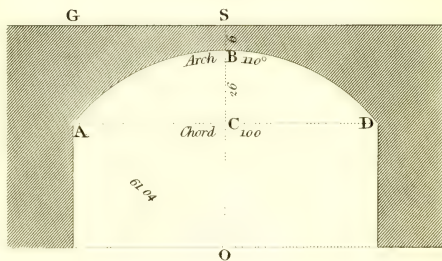


Fig. 6.

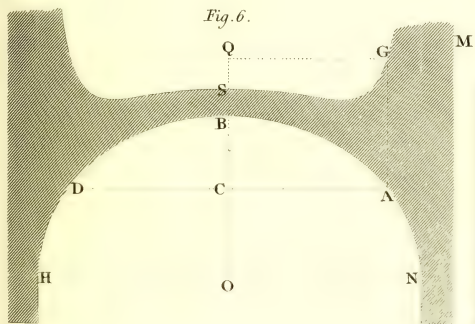
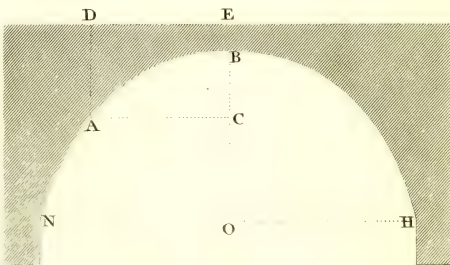


Fig. 7.



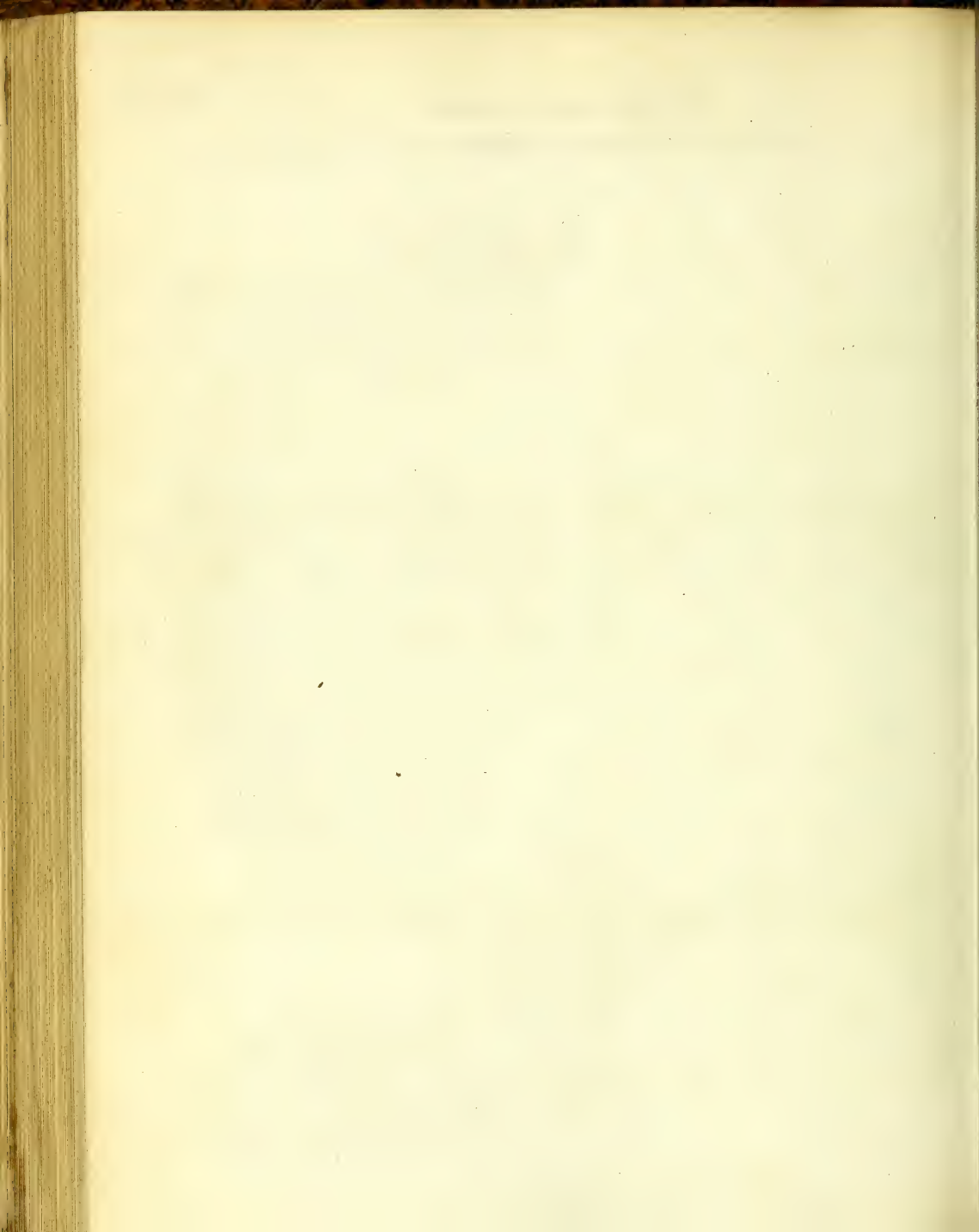


Fig. 1. N° 4.



Fig. 1. N° 3.



Fig. 1. N° 2.



Fig. 1. N° 1.

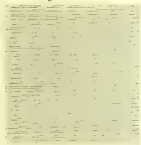


Fig. 2. N° 4.



Fig. 2. N° 3.

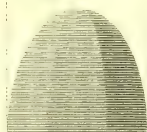


Fig. 2. N° 2.



Fig. 2. N° 1.

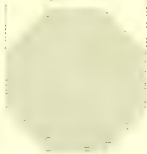


Fig. 3. N° 6.



Fig. 3. N° 5.



Fig. 3. N° 4.



Fig. 3. N° 3.



Fig. 3. N° 2.



Fig. 3. N° 1.

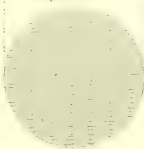


Fig. 4. N° 5.



Fig. 4. N° 4.



Fig. 4. N° 3.



Fig. 4. N° 2.



Fig. 4. N° 1.

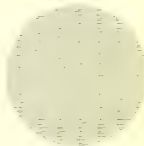


Fig. 6. N° 2.



Fig. 6. N° 1.



Fig. 6. N° 4.



Fig. 6. N° 3.



Fig. 6. N° 5.



Fig. 7. N° 1.

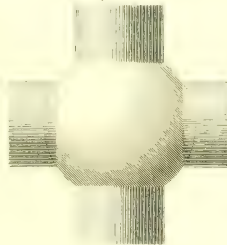
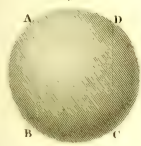


Fig. 7. N° 2.



Fig. 5.



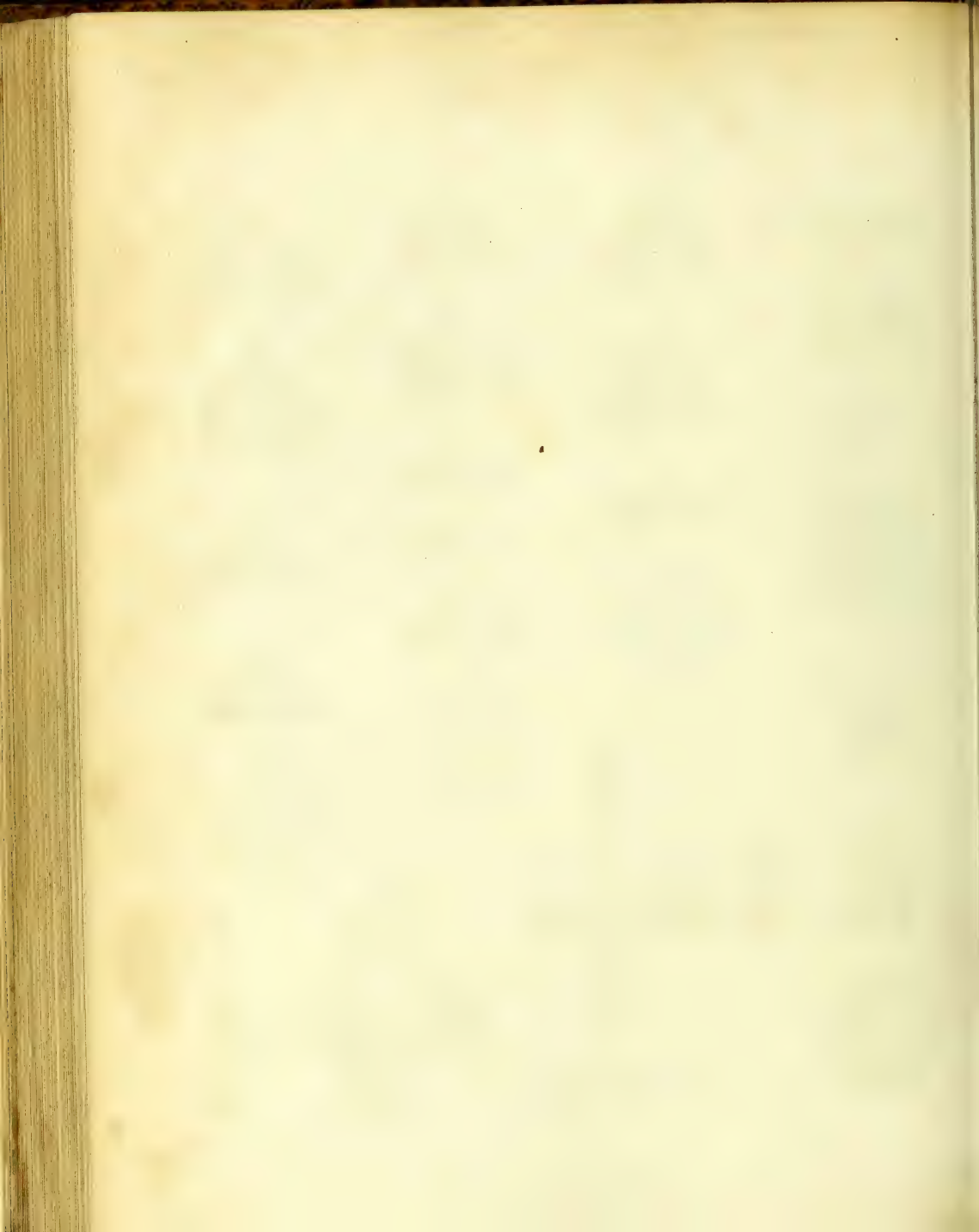


Fig. 2.



Fig. 1.



Fig. 1. N° 1.

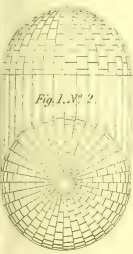


Fig. 1. N° 2.

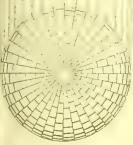


Fig. 2. N° 2.



Fig. 2. N° 1.



Fig. 3.

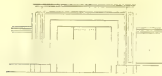


Fig. 4.

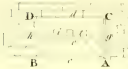


Fig. 3. N° 2.



Fig. 3. N° 1.



Fig. 3. N° 3.



Fig. 4.



Fig. 5.



Fig. 6.



Fig. 3. N° 4.

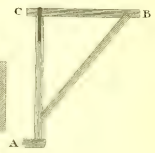
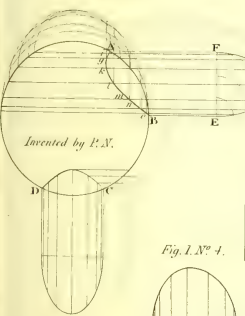


Fig. 1. N° 1.



Invented by P.N.

Fig. 1. N° 2.



Fig. 1. N° 3.



Fig. 1. N° 1.



Fig. 3. N° 2.



Fig. 3. N° 2.

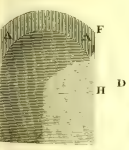


Fig. 4. N° 2.



Fig. 3. N° 1.



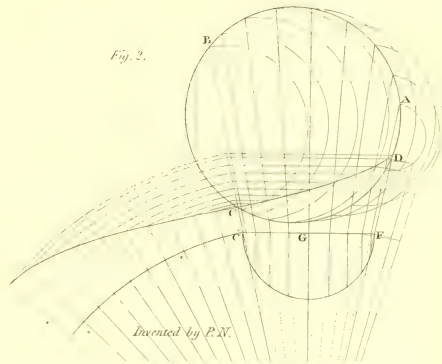
Fig. 1. N° 1.



Fig. 5. N° 1.



Fig. 2.

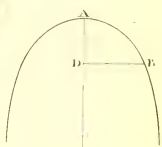


Invented by P.N.

Fig. 1.



Fig. 3.



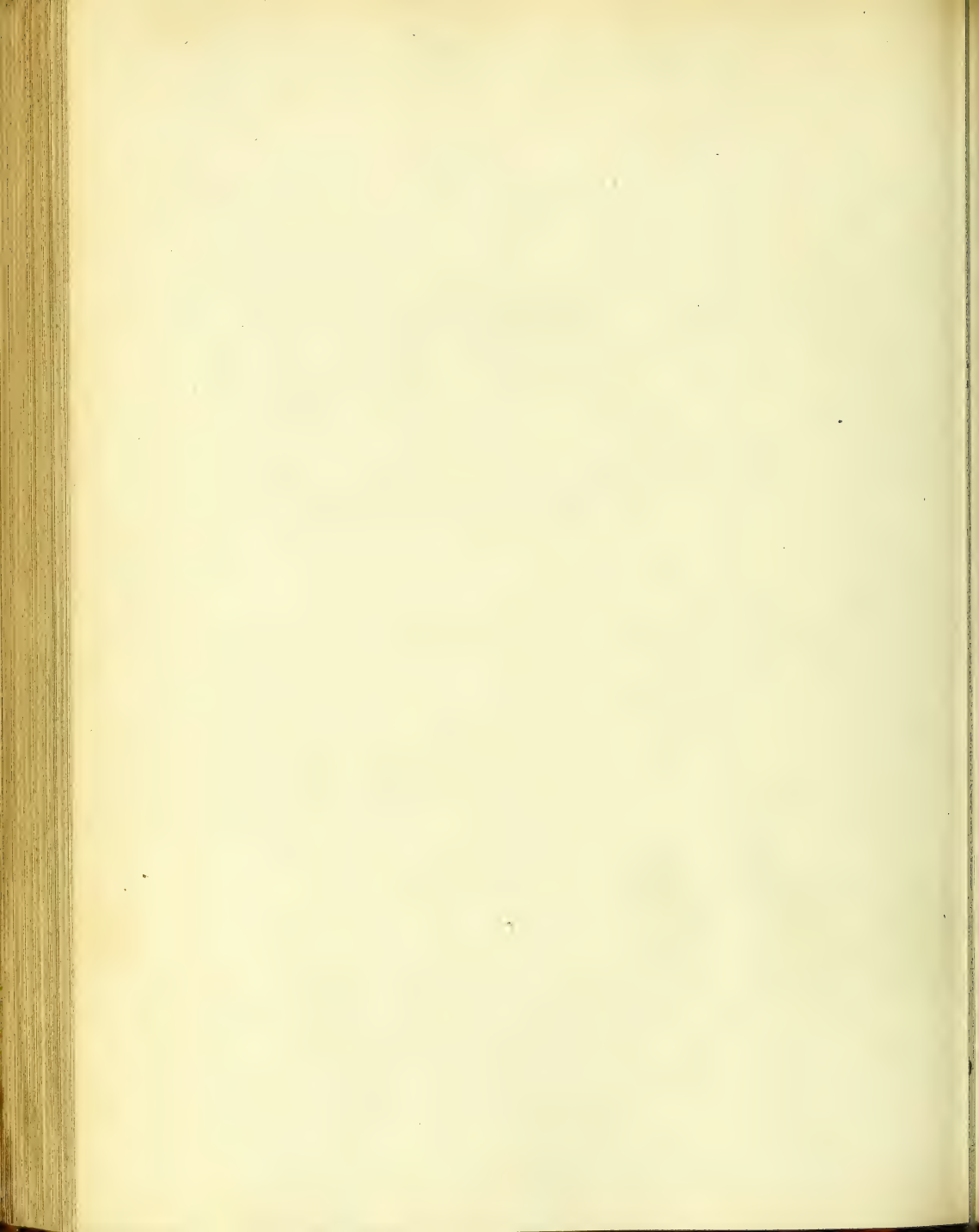
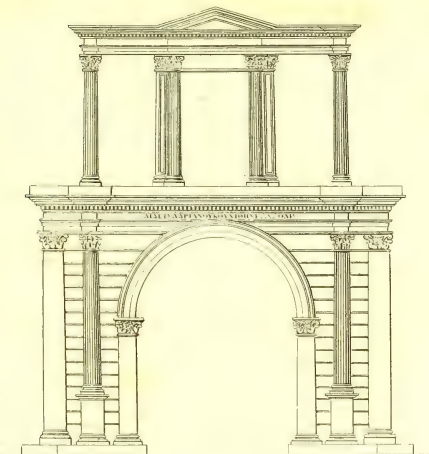


Fig. 1.



0 5 10 20 30 40 50 Feet.

Fig. 2.

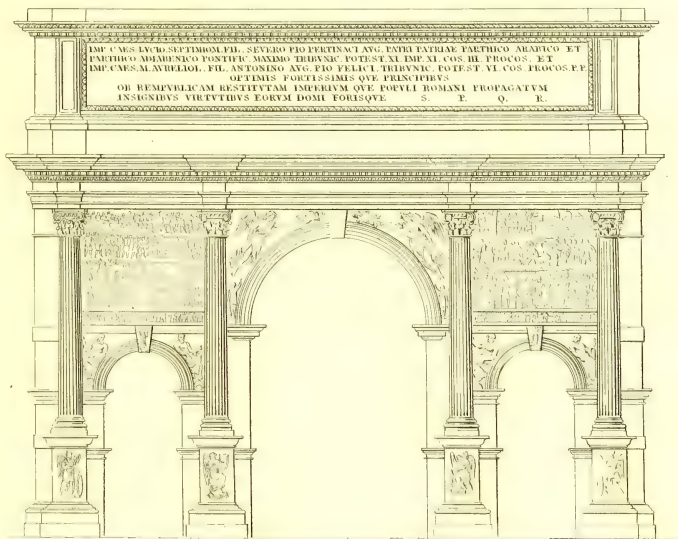


Fig. 1. The Arch of Adrian at Athens.

Fig. 2. The Arch of Septimius Severus at Rome.

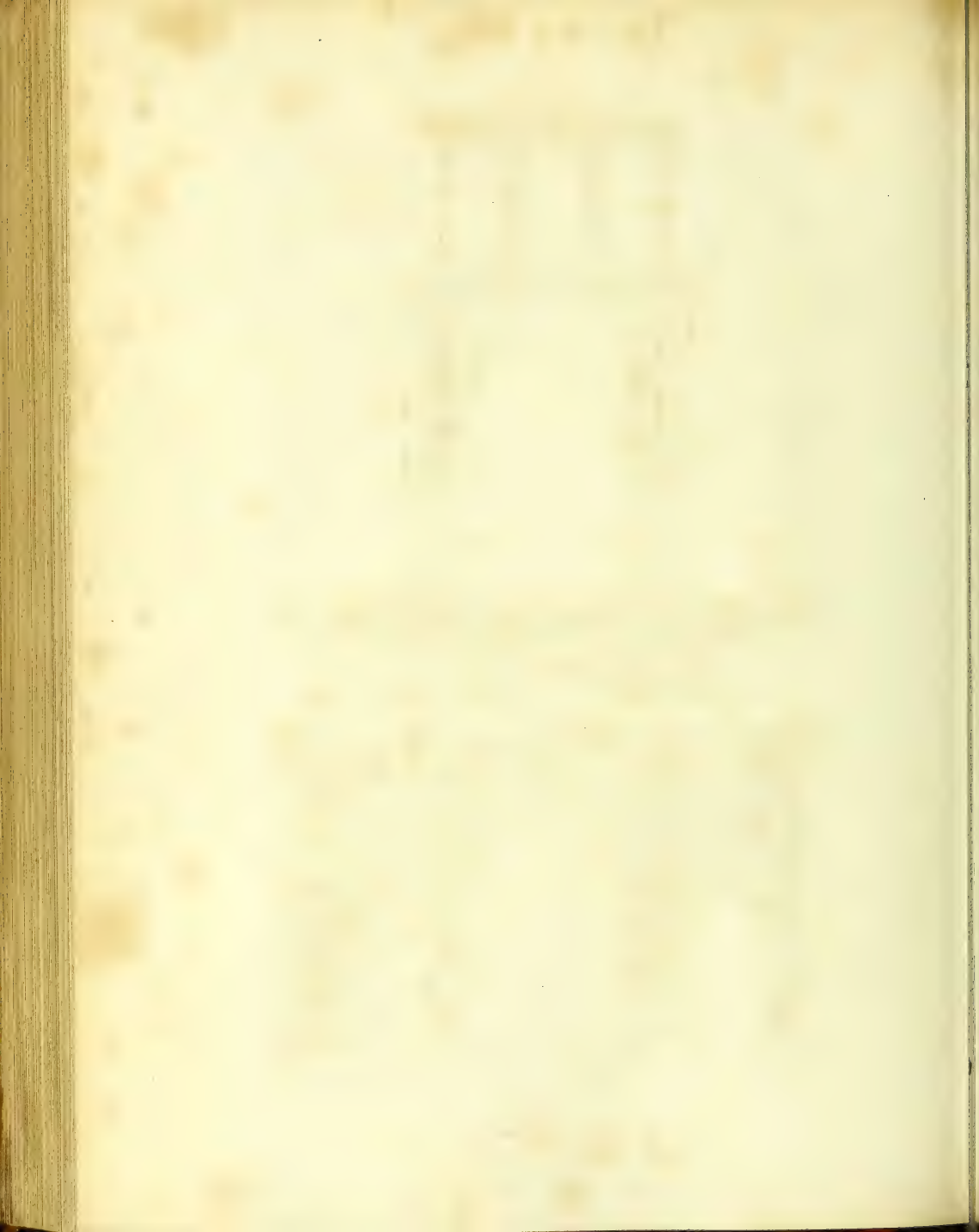


Fig. 1.

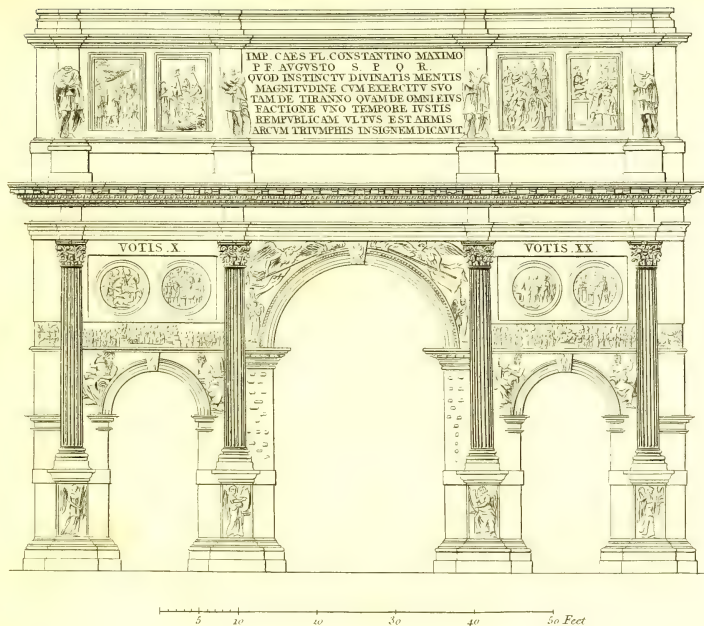


Fig. 2.



Fig. 3.

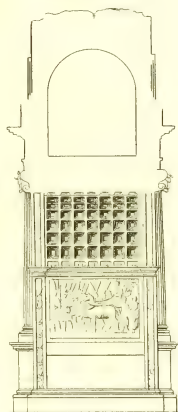
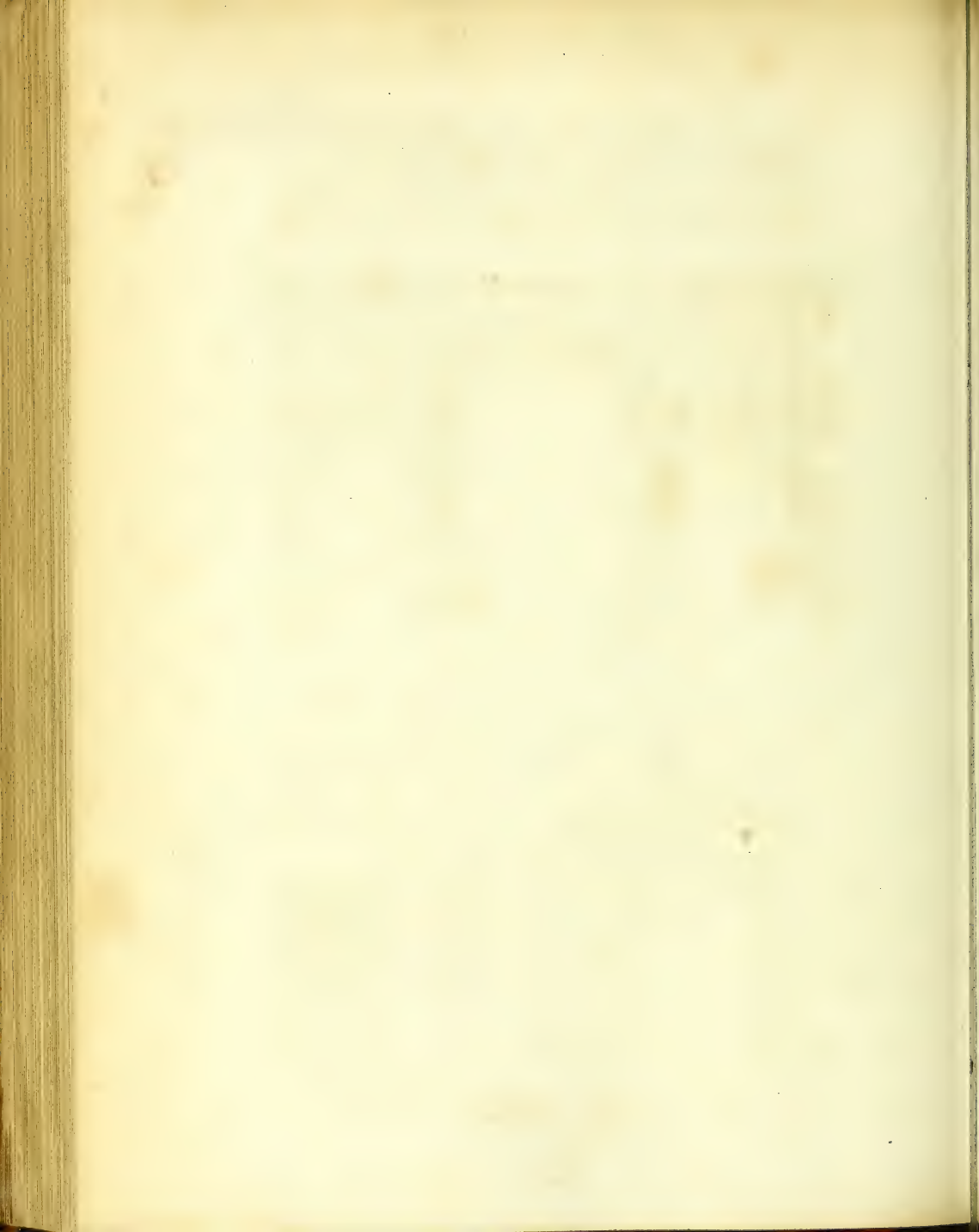
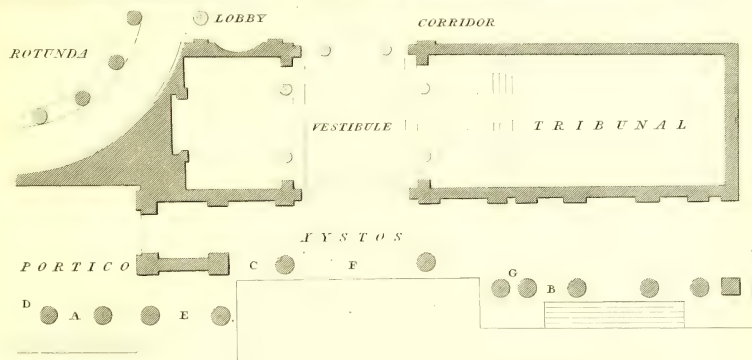
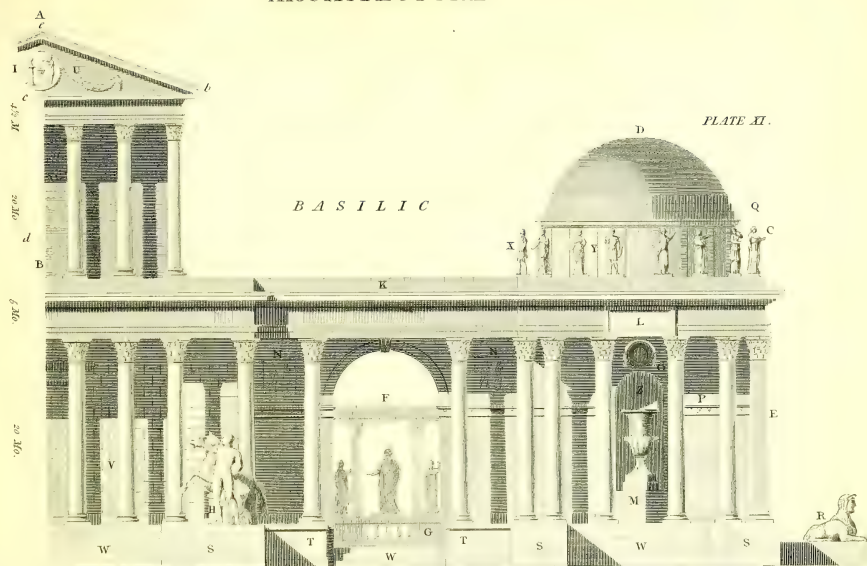


Fig. 1. The Arch of Constantine.

Fig. 2. The Arch of Titus.

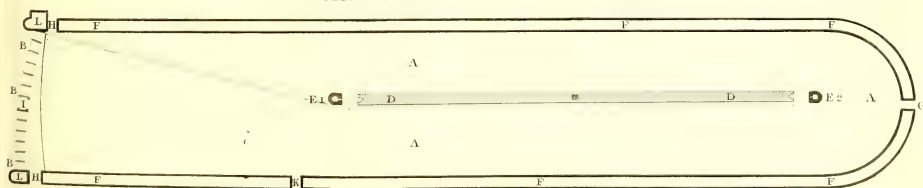
Fig. 3. Section of the same.

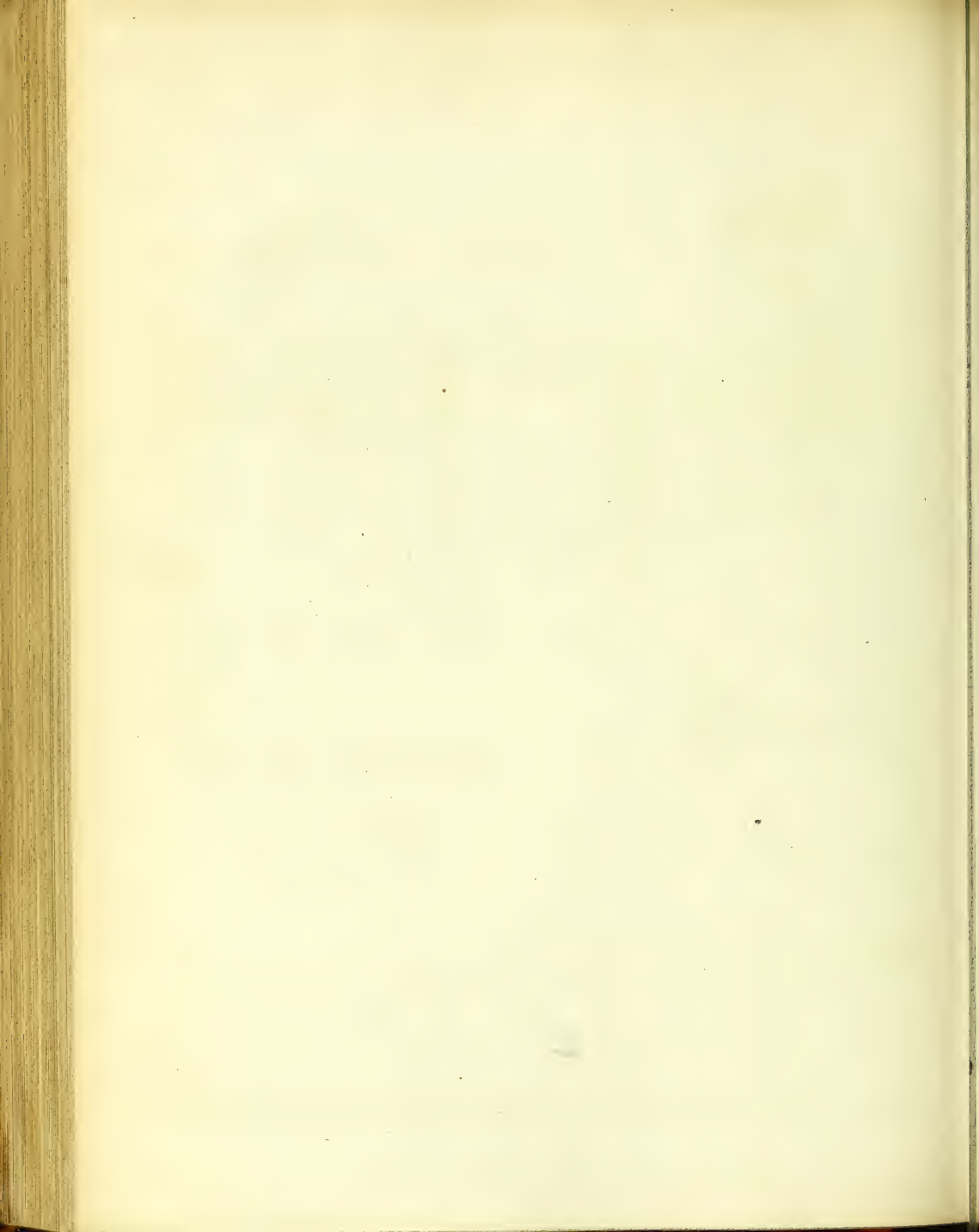




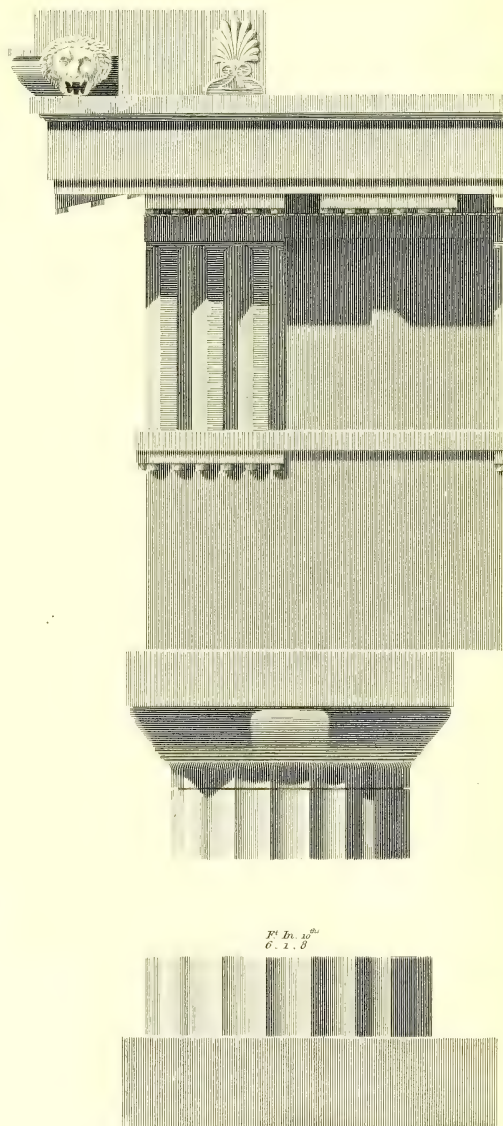
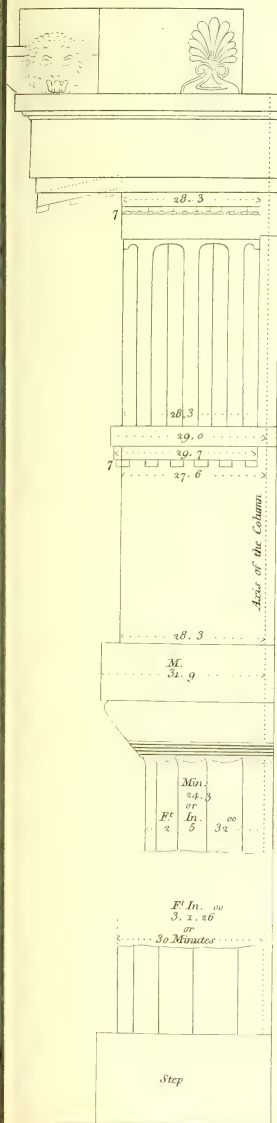
CIRCUS OF CARACALLA.

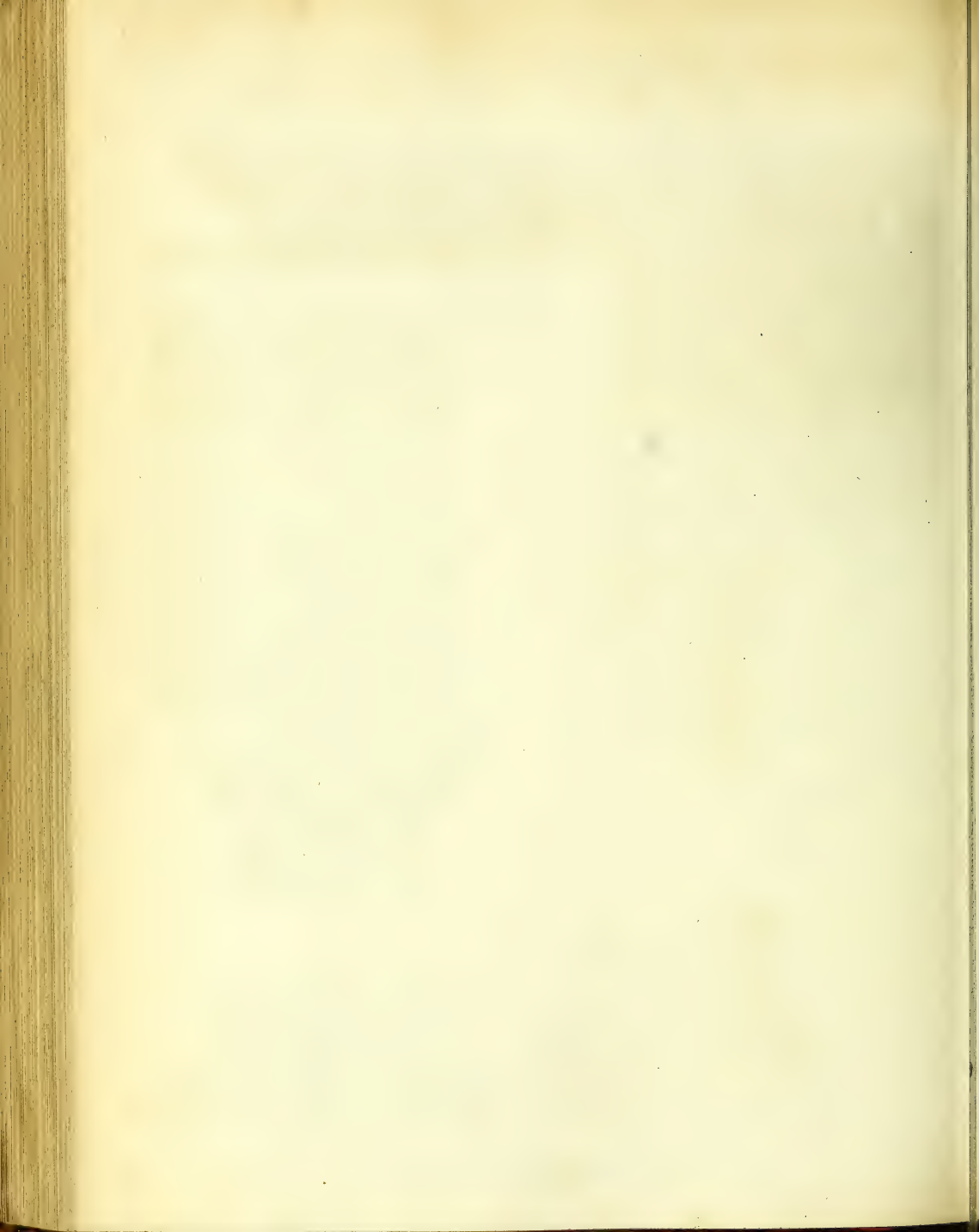
PLATE XII.



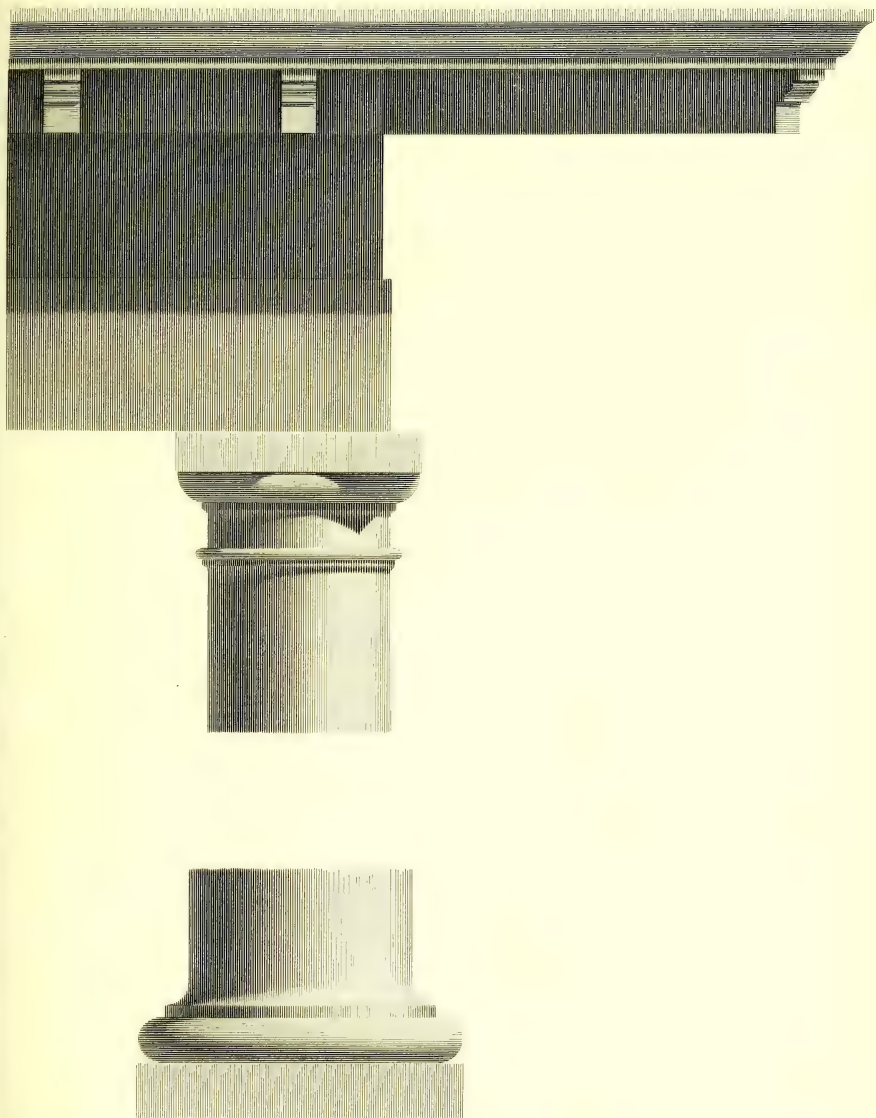


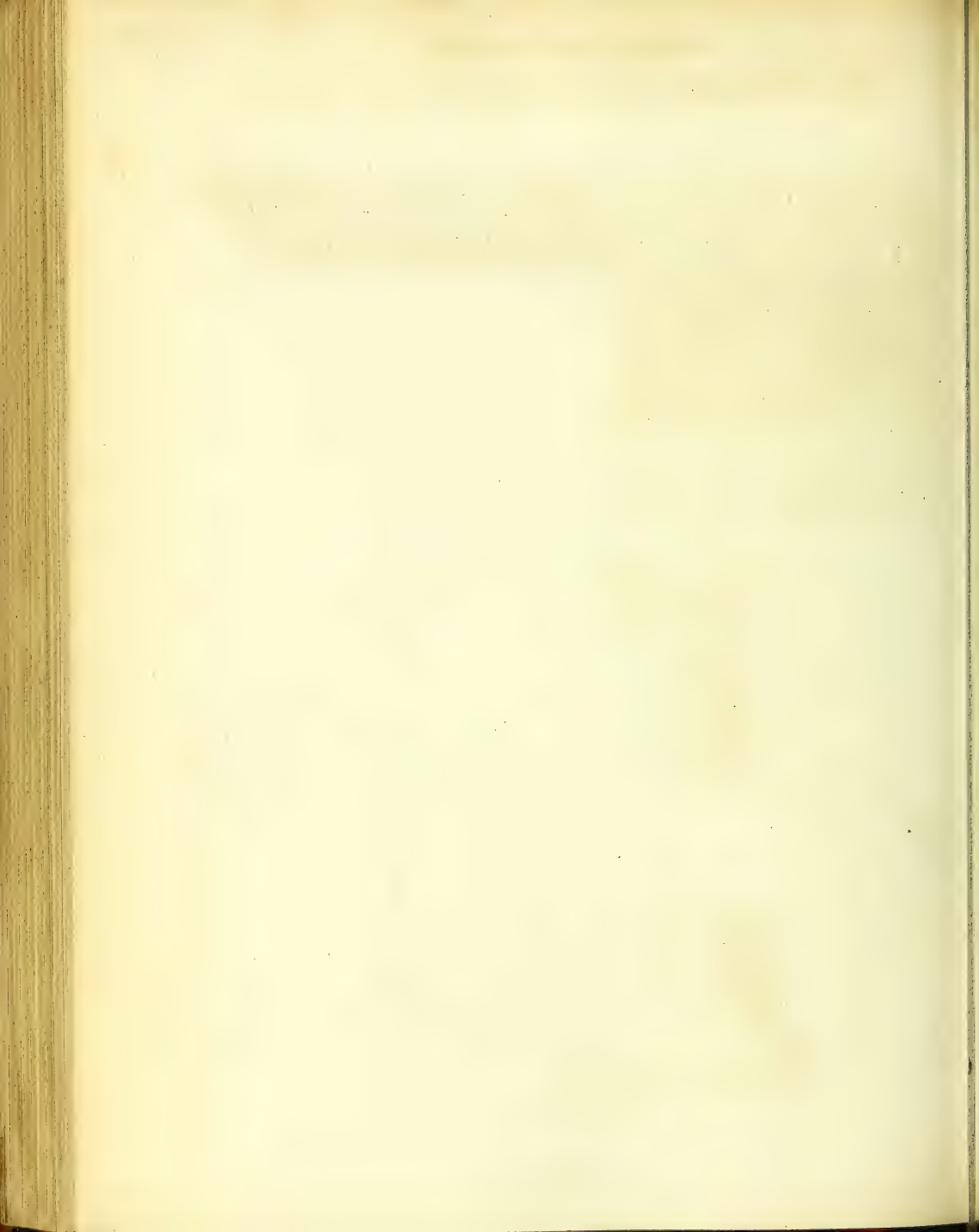
THE DORIC ORDER, FROM THE TEMPLE OF MINERVA CALLED THE PARTHENON.

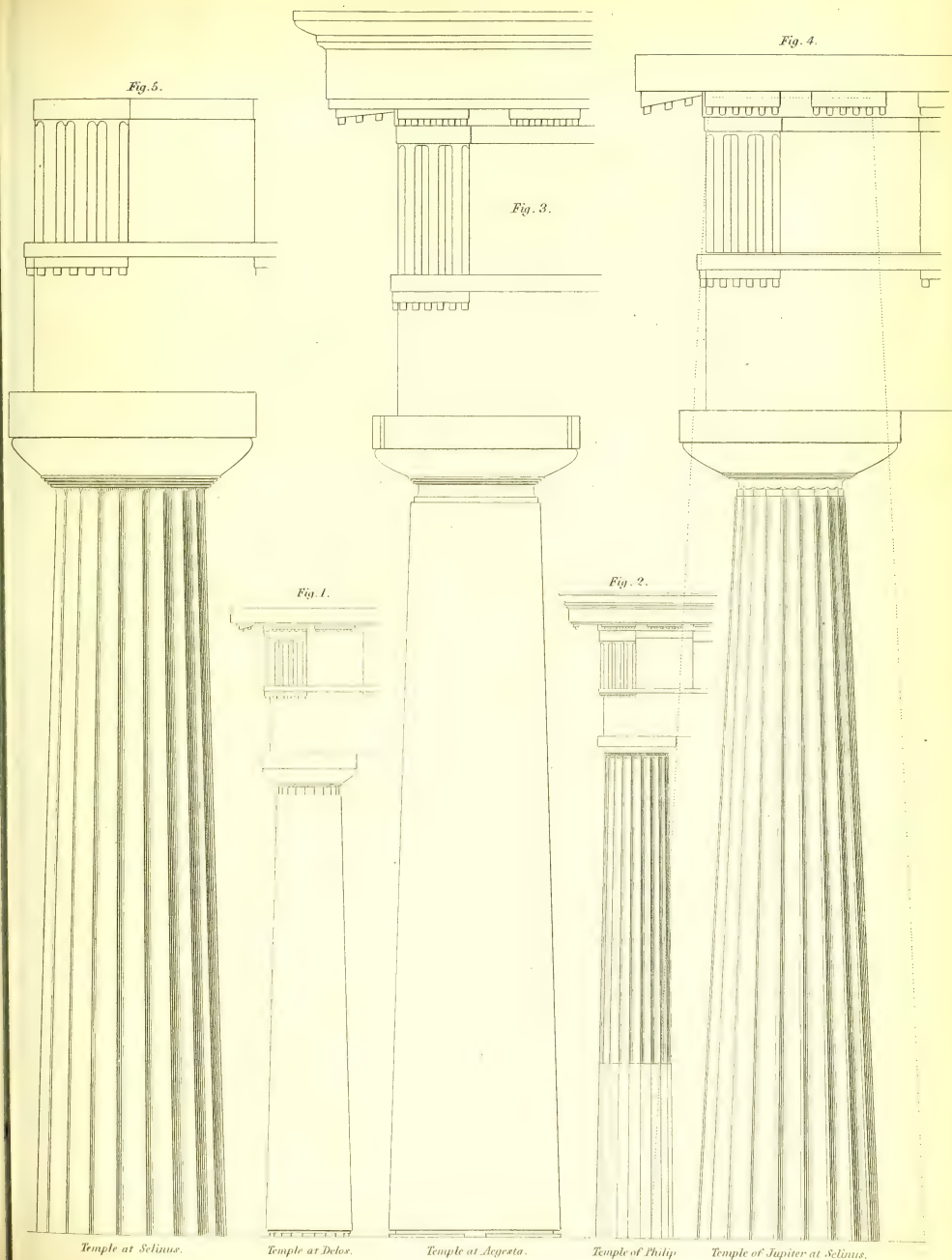




THE TUSCAN ORDER, FROM THE CHURCH IN COVENT GARDEN.







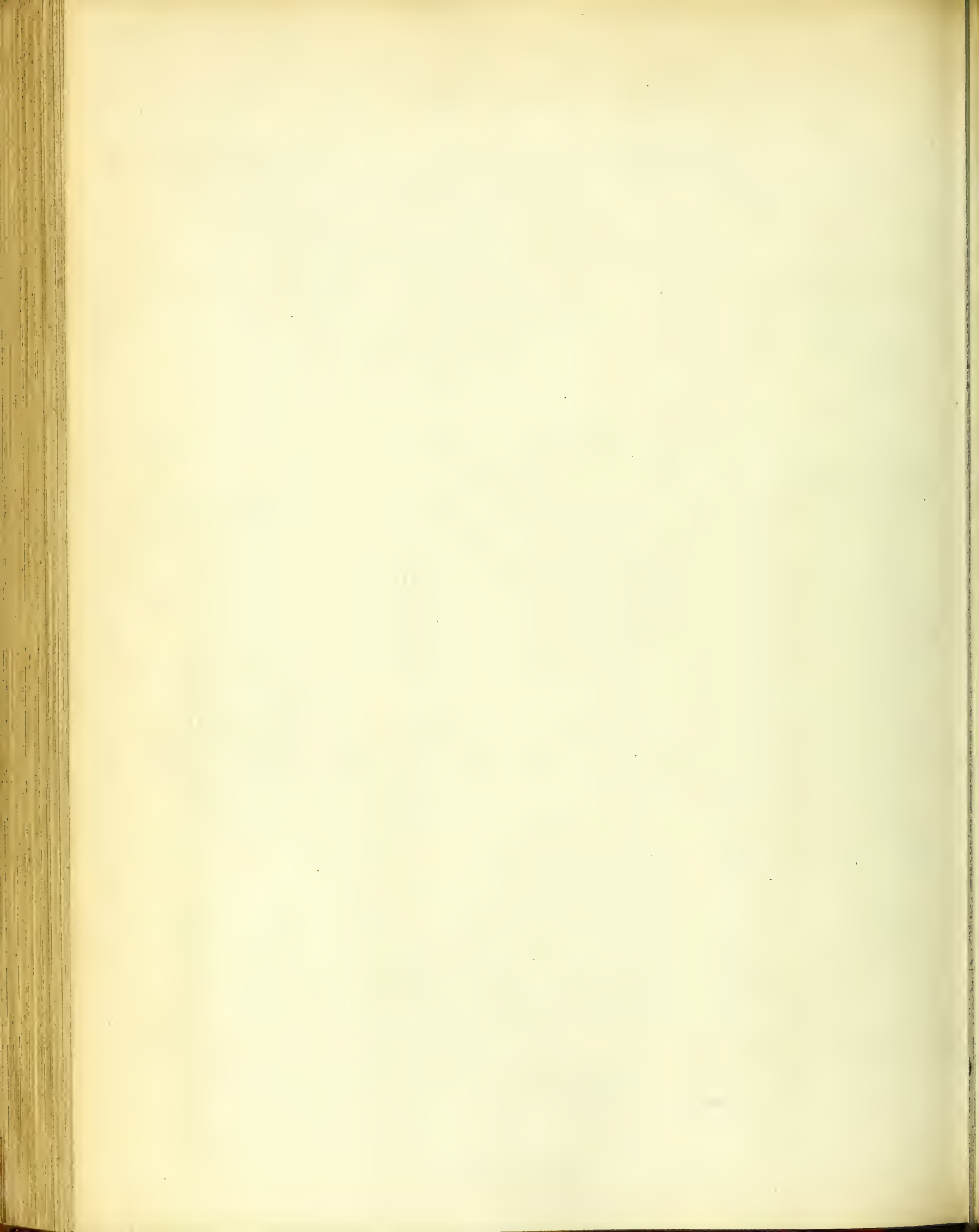


Fig. 3.

Fig. 2.

Fig. 5.

Fig. 1.

Fig. 4.

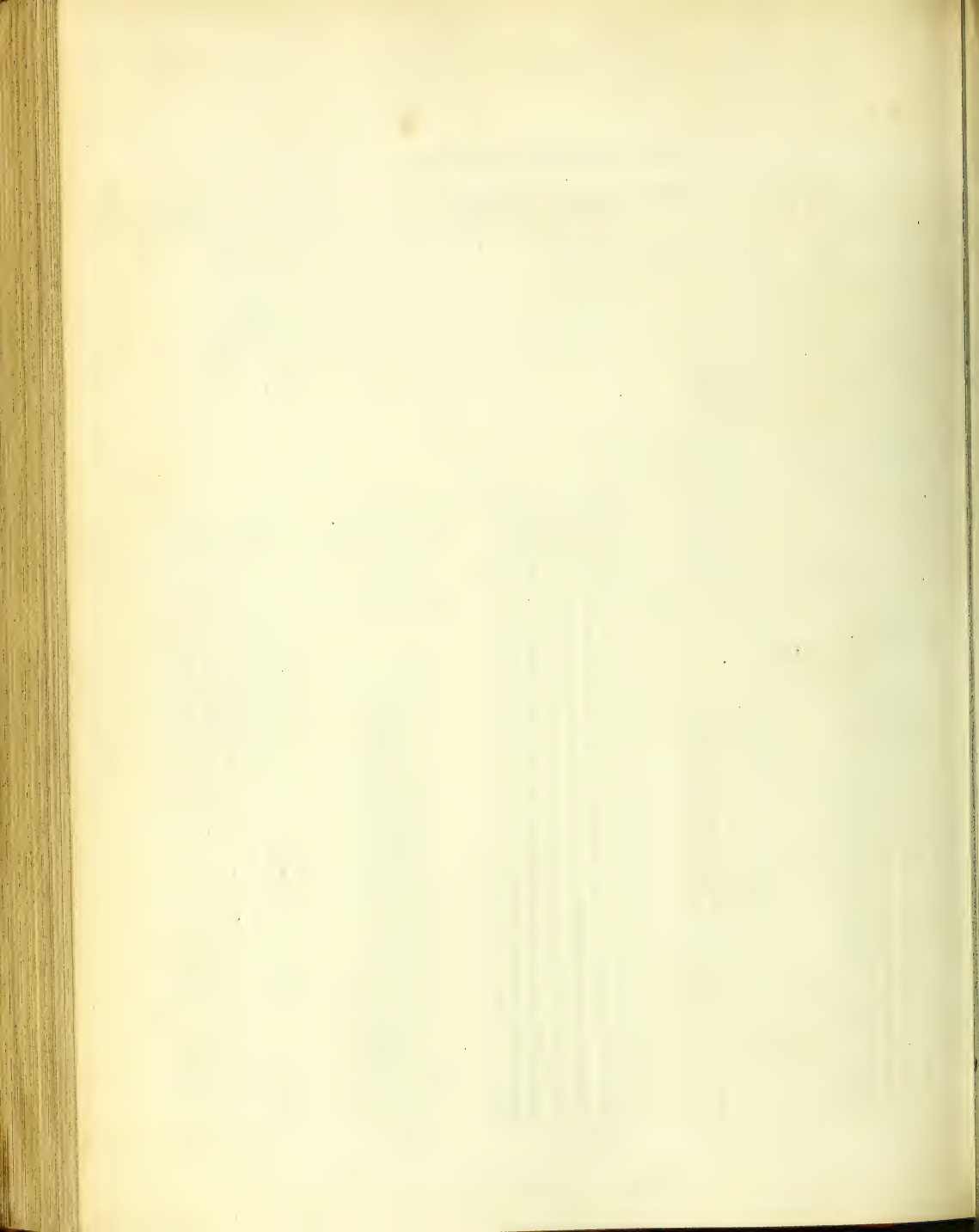
Temple of Corinth.

Hypæthral Temple
at Paestum.

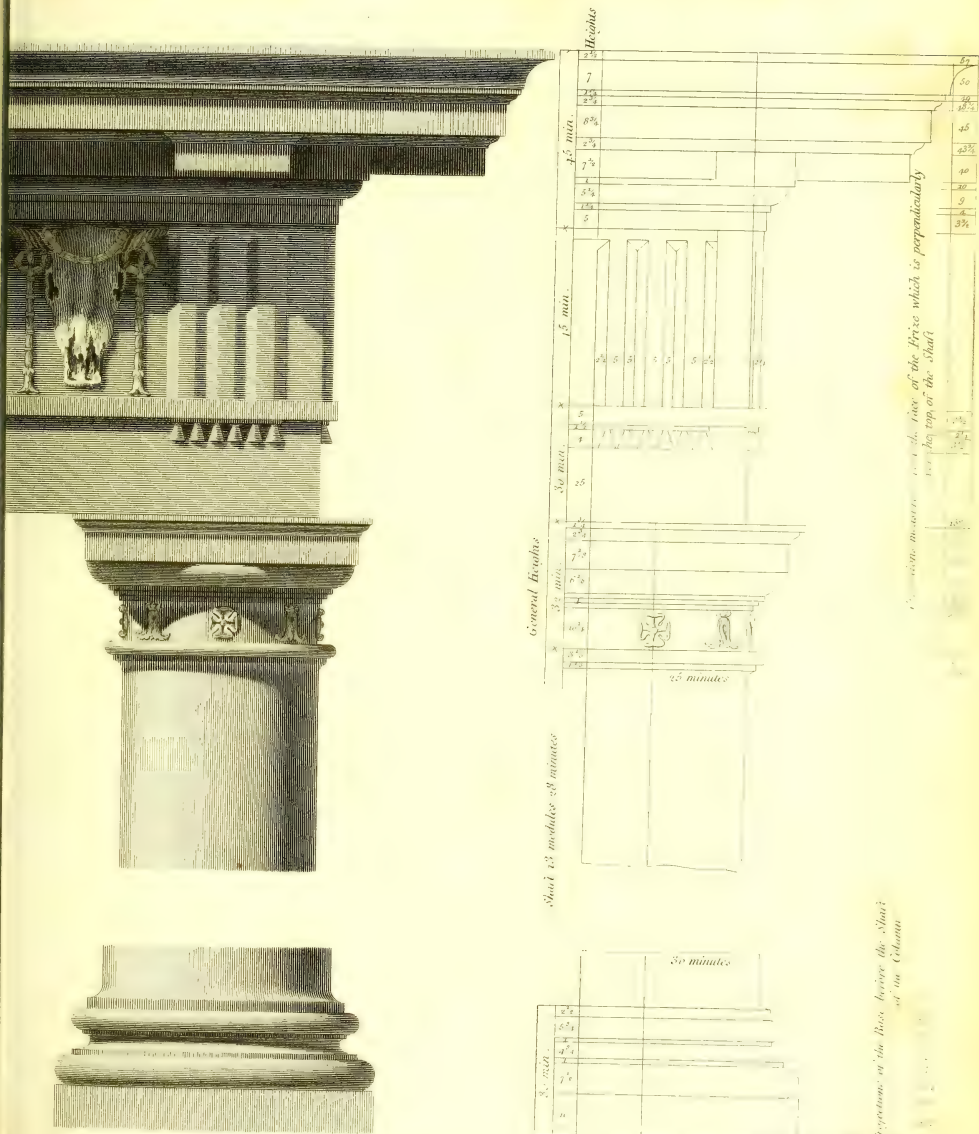
Hypæthral Temple
at Paestum.

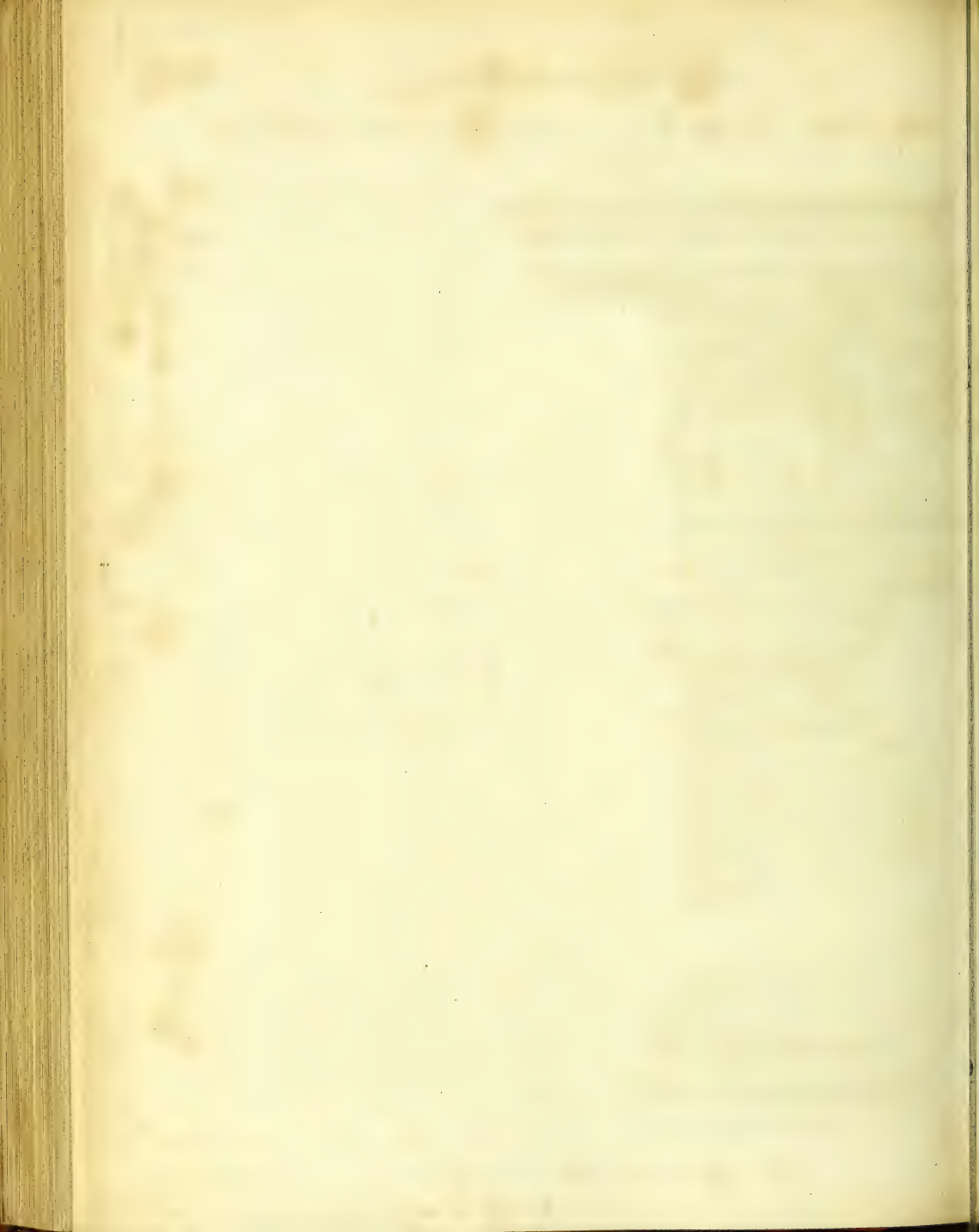
Temple of Minerva
at Sinuessa.

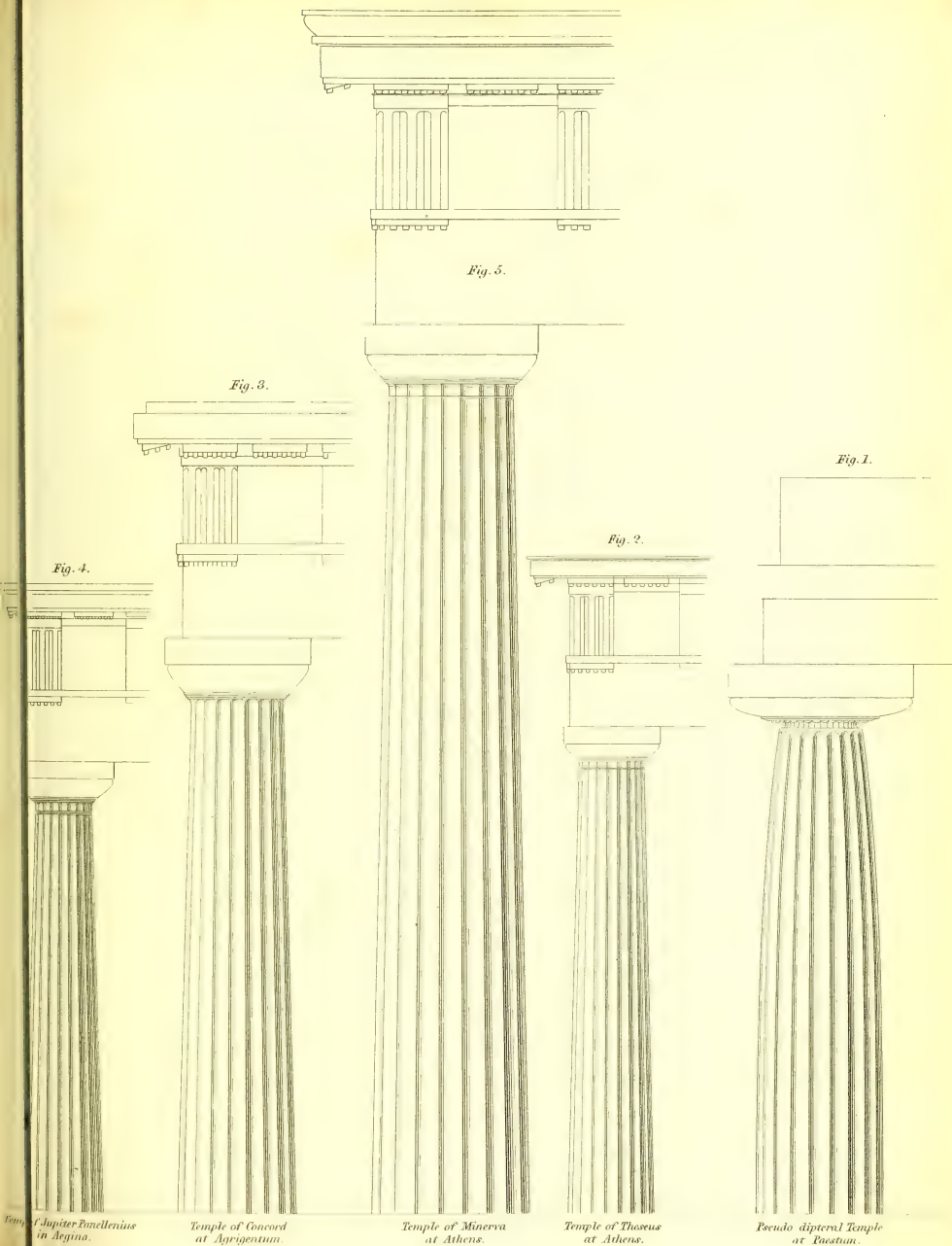
Temple of Minerva
at Syracuse.



THE DORIC ORDER ACCORDING TO SIR W^m CHAMBERS.







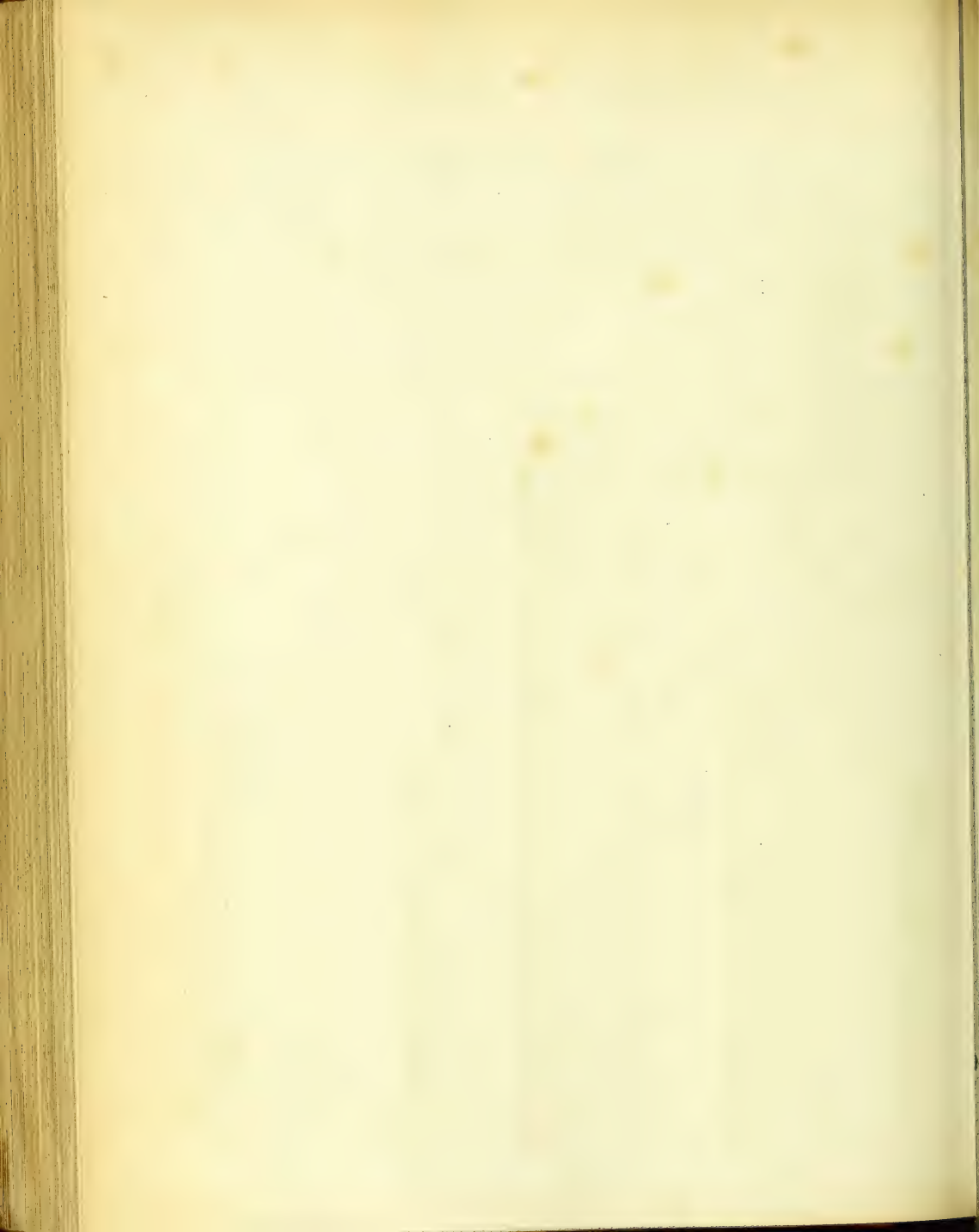
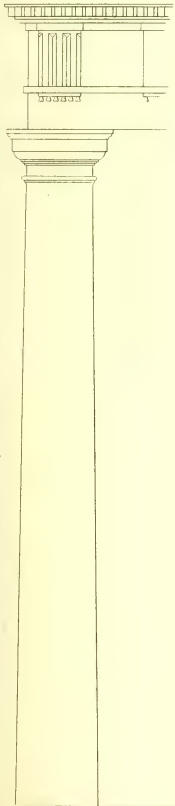
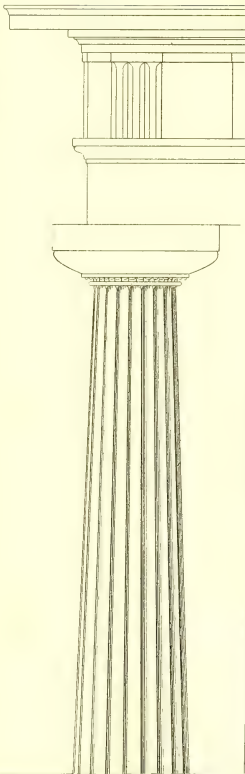


Fig. 1.



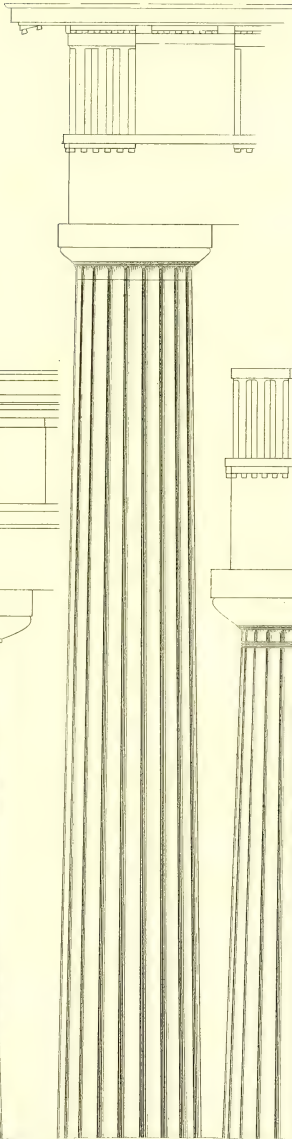
Theatre of Marcellus at Rome.

Fig. 2.



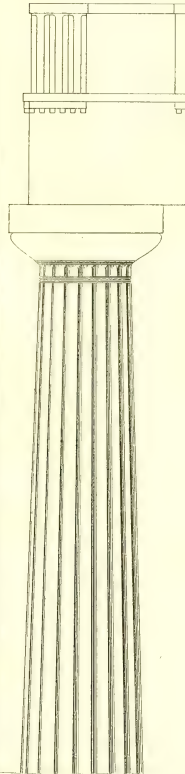
Hexastyle Temple
at Paestum.

Fig. 3.



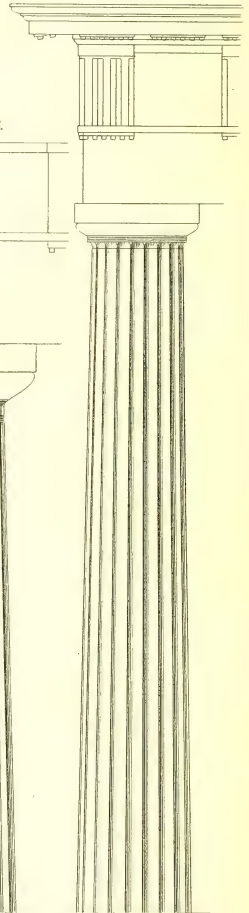
Temple of Jupiter Nemoros
between Argos & Corinth.

Fig. 4.

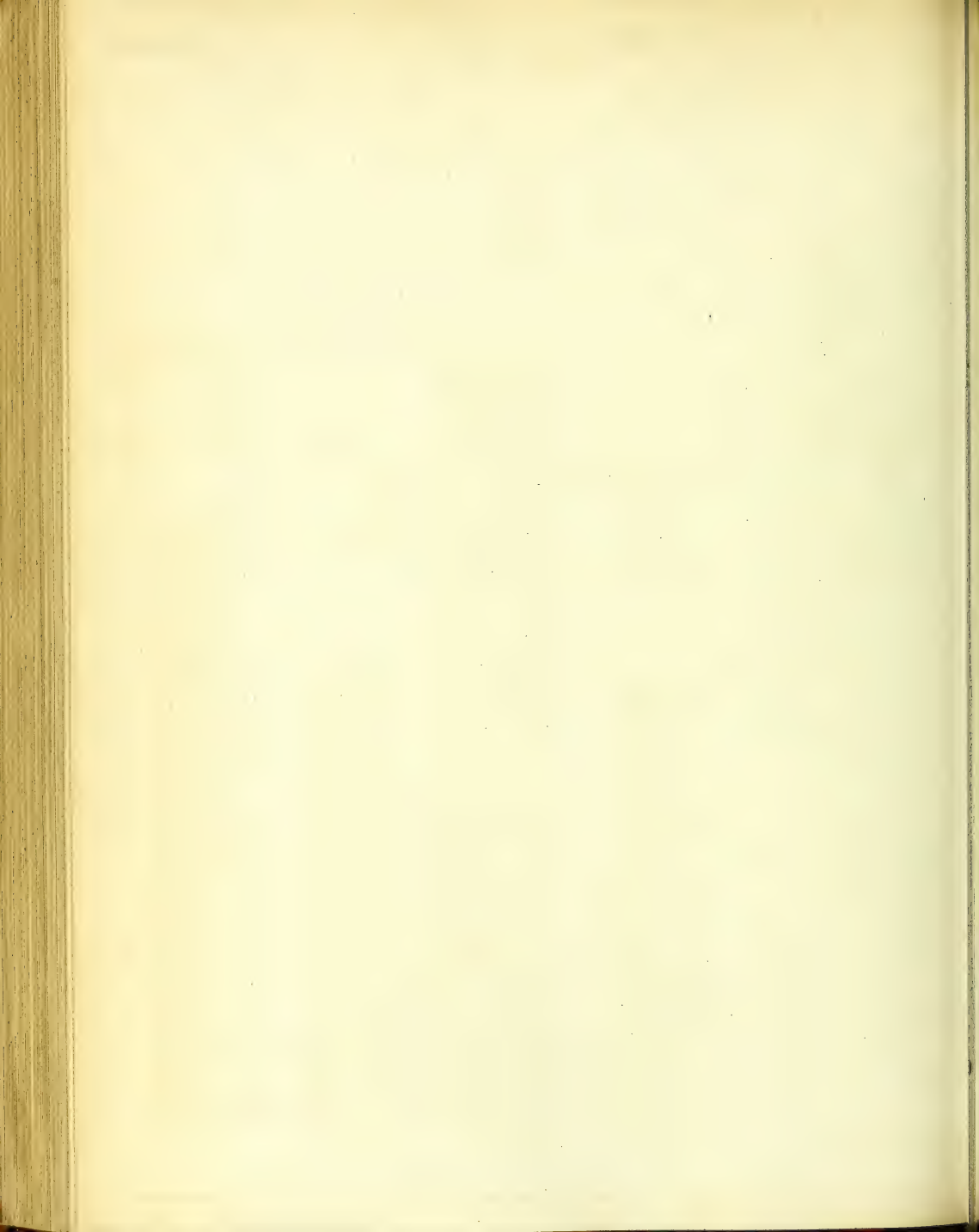


Temple of Juno Lucina
at Agrigento.

Fig. 5.

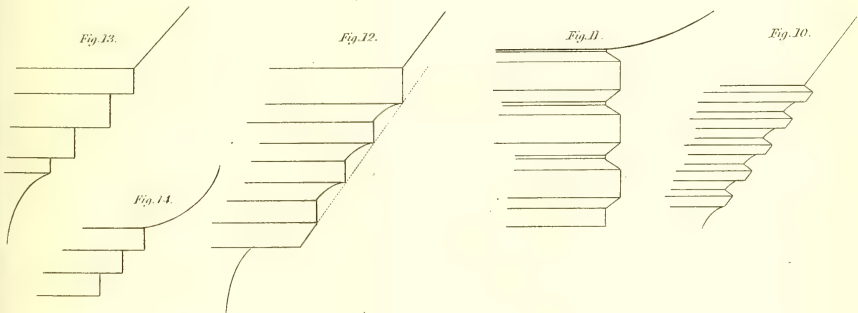
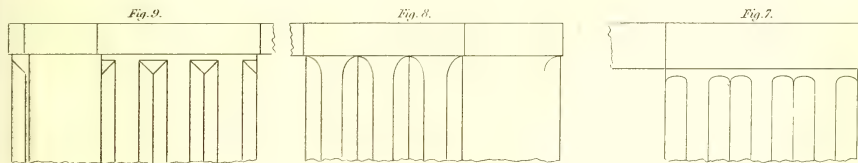
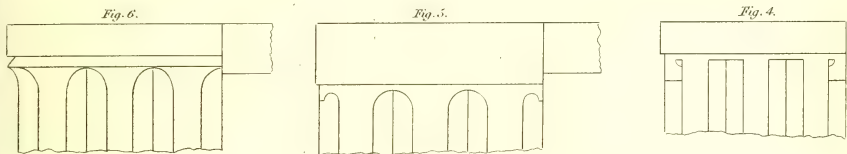
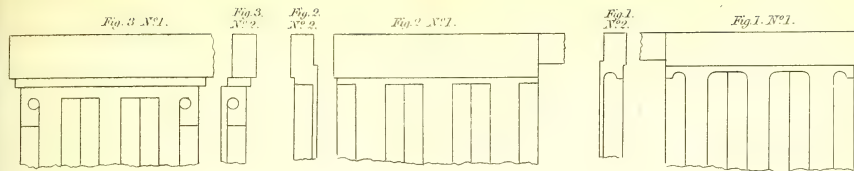


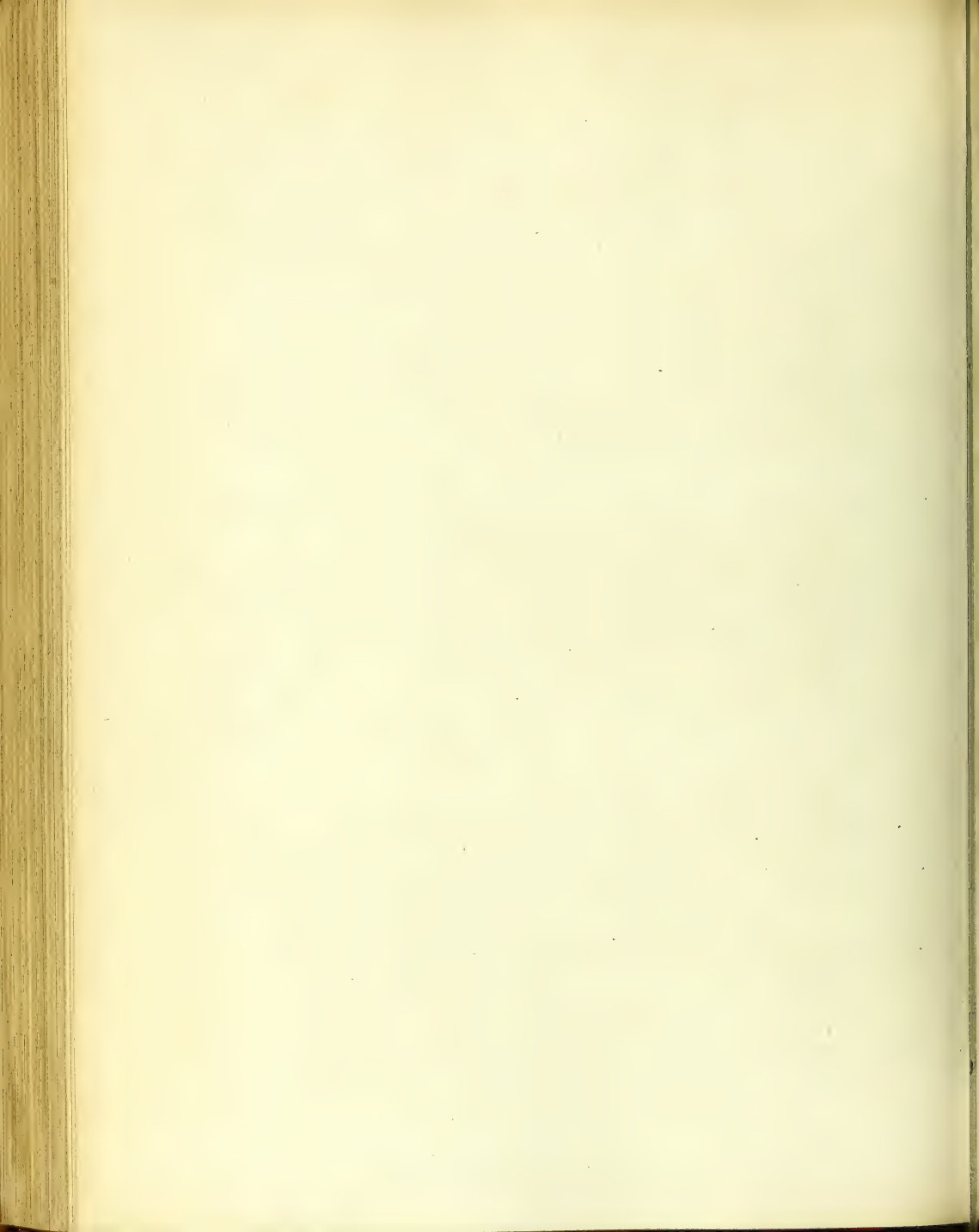
The Agora at Athens.

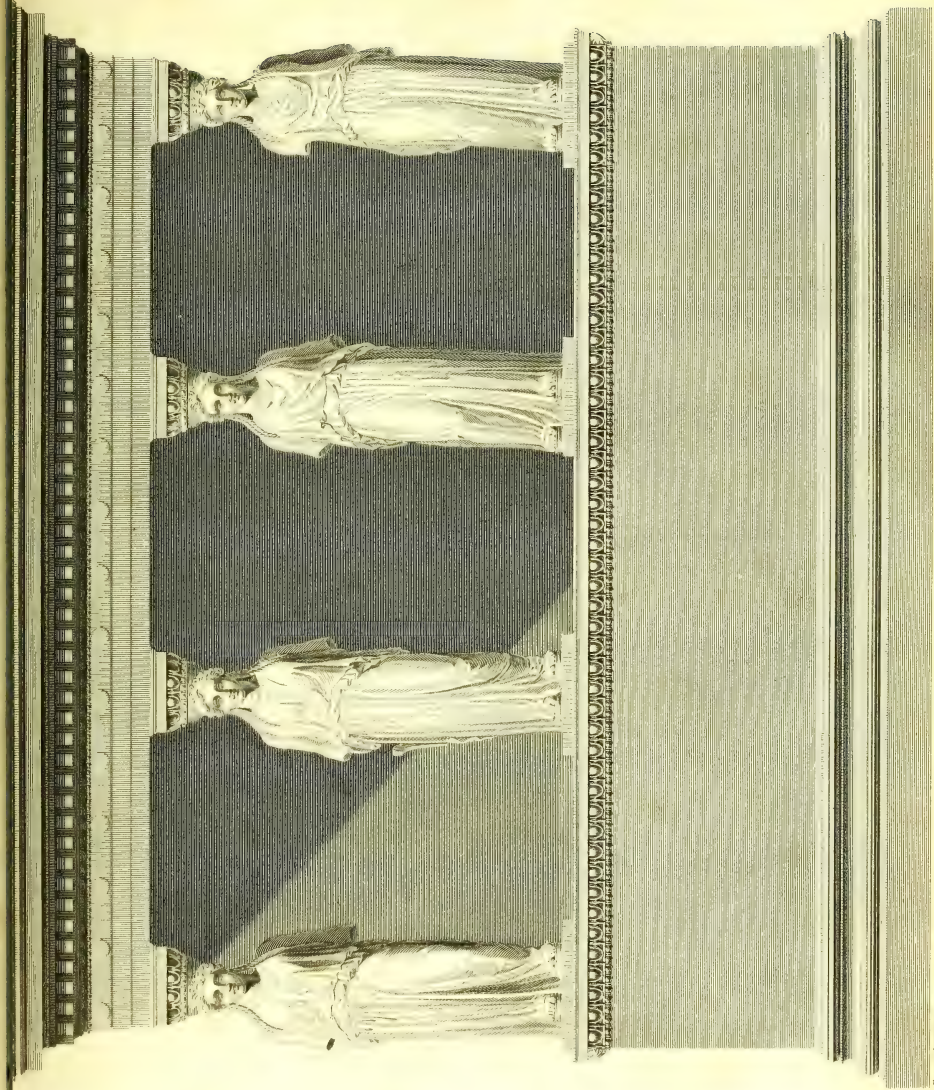


ARCHITECTURE.
DORIC ORDER.

PLATE XVIII. a.





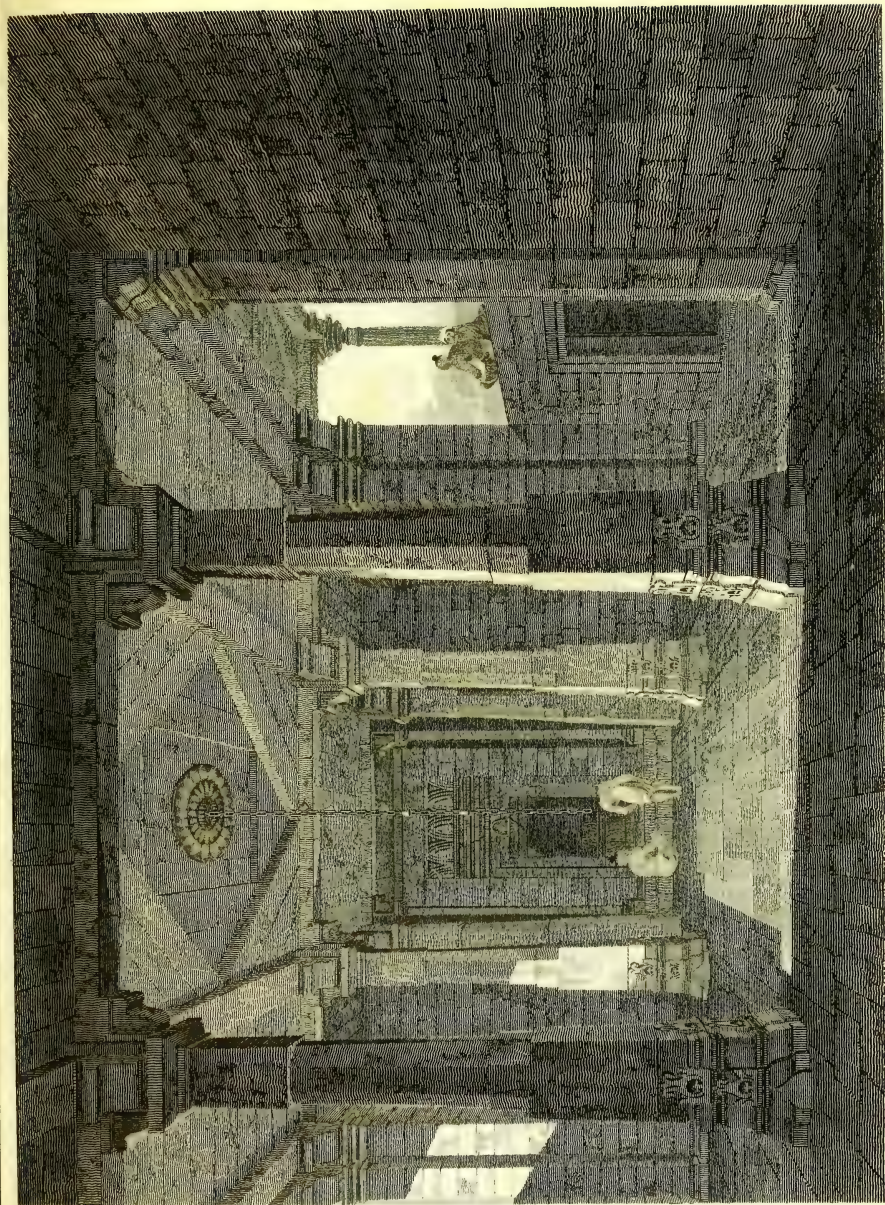


From Memory.

Published as the Act Direct, Feb'y 26/66 by Longman, Hurst, Rees & Orm, Paternoster Row.

Engraved by Wilson Lowry.



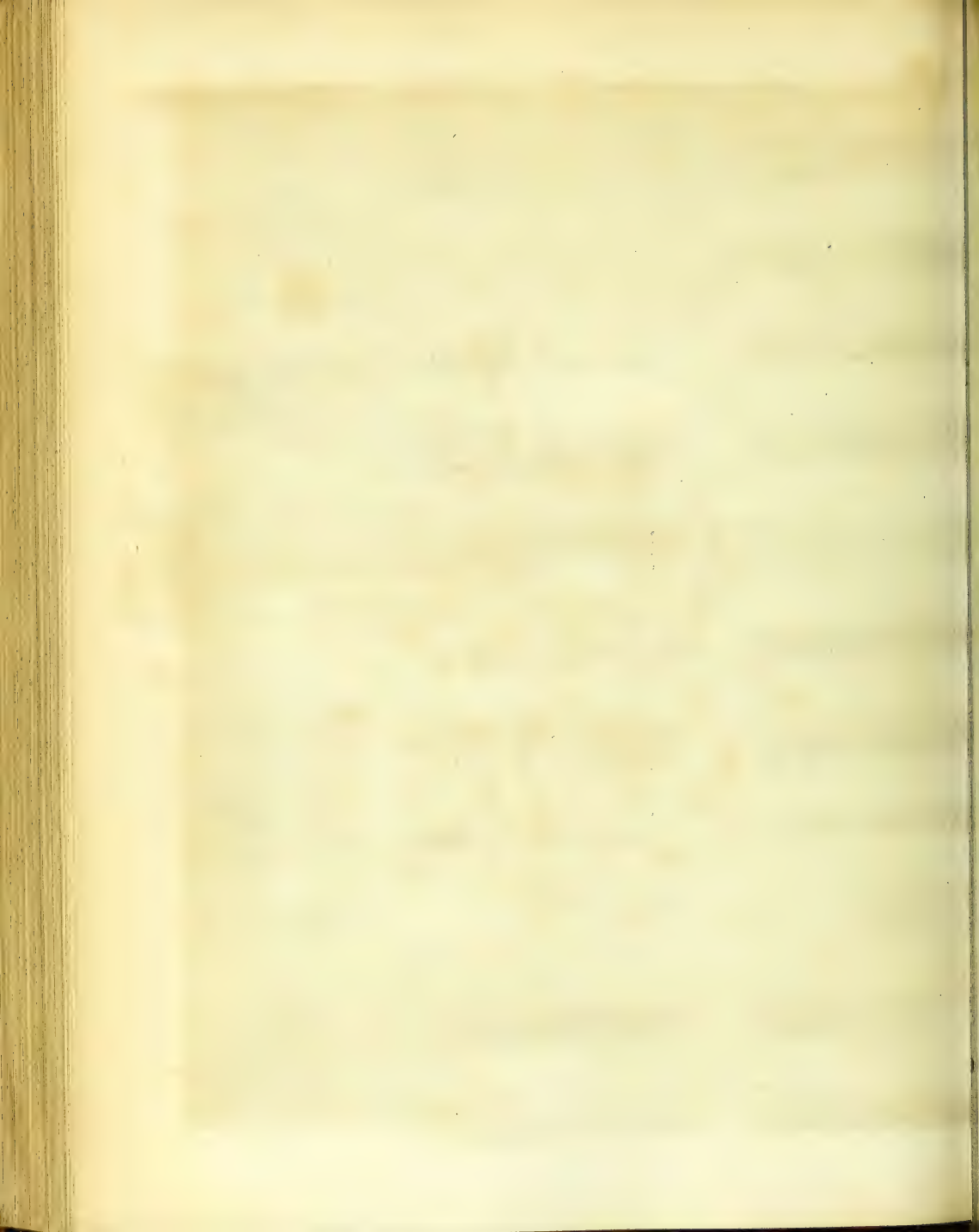


From Mr. Thomas's *Antiquities of India*.

Engraved by Wilson Lowry.

PART OF THE INTERIOR OF AN HINDOO TEMPLE, AT DEO, IN BAHAR.

Published as the Act directs, May 1st 1824, by Longman & Co., Paternoster Row.



MOULDINGS &c.

Fillet Listel Annulet or Square.



Astragal or Bead.



Cyma, Cyma Recta or Cymatium.



Listel and Fascia.



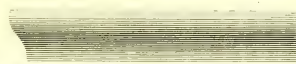
Echinus Ovolo or Quarter Round.



Echinus enriched.



Sections of the Echinus.



Inverted Cyma Talon or Cove.



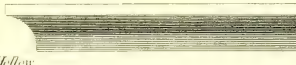
Talon enriched.



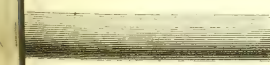
Astragal or Bead enriched.



Doric Annulets.



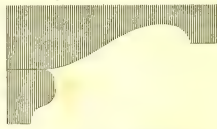
Cavetto or Hollow.



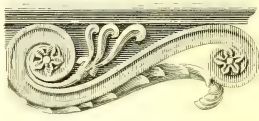
Torus.



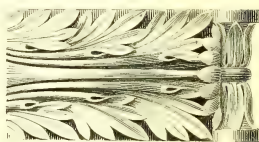
Scotia or Trochilus.



Cantaliver.



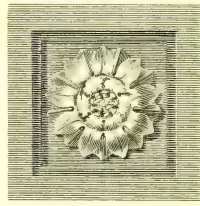
Corinthian Modillion.



Soffit of a Modillion.

ROMAN.

Panel between the Corinthian Modillions in the Soffit of the Cornia.



Flower in the



Corinthian Abacus.

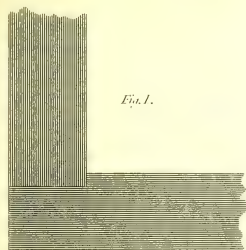


Fig. 1.

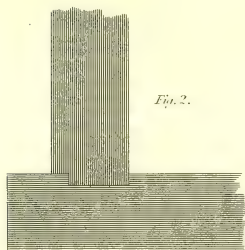


Fig. 2.

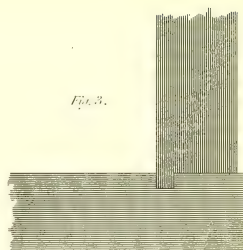


Fig. 3.

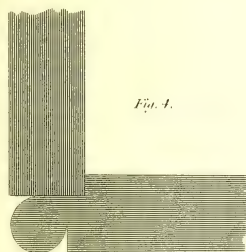


Fig. 4.

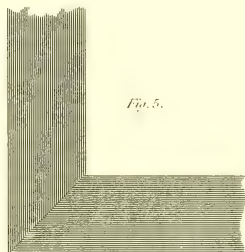


Fig. 5.

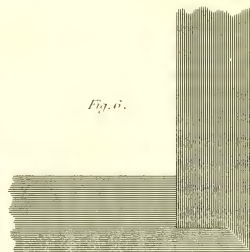


Fig. 6.

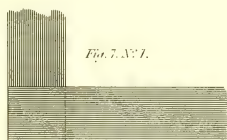


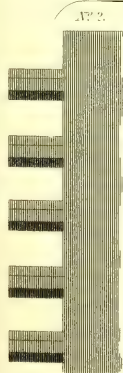
Fig. 7. N° 1.



Fig. 8. N° 1.



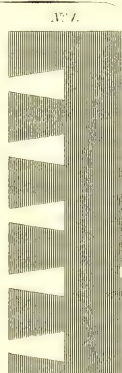
Fig. 9. N° 2.



N° 2.



N° 3.



N° 4.

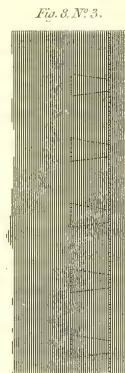


Fig. 8. N° 3.



Fig. 8. N° 4.

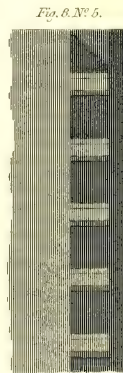
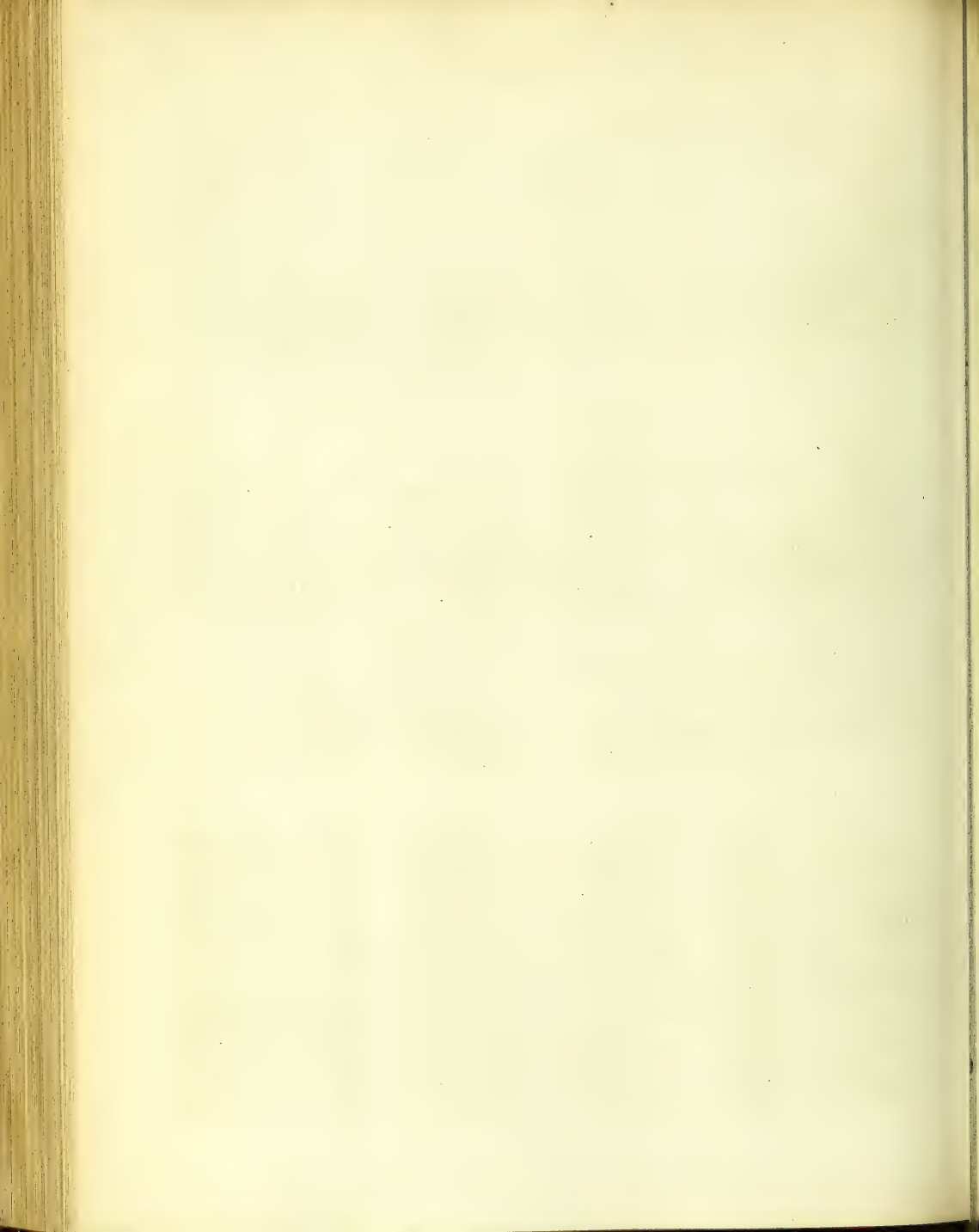


Fig. 8. N° 5.



JOINERY.

Fig. 1.

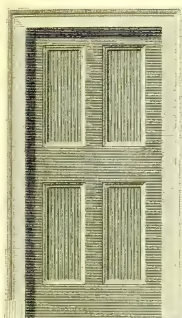


Fig. 2.

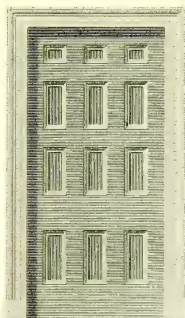


Fig. 3.

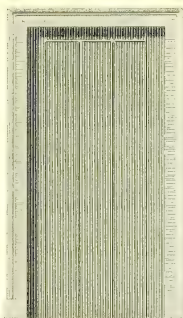


Fig. 4.

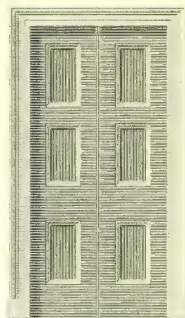


Fig. 5.

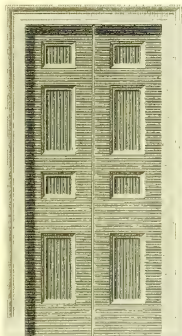


Fig. 6.

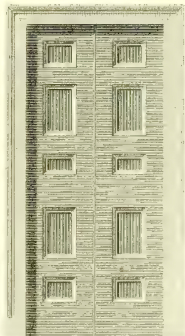


Fig. 7.

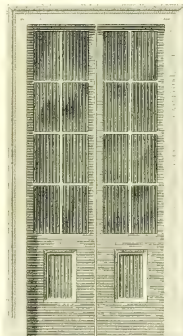


Fig. 8.

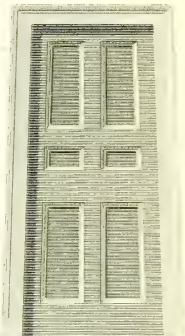


Fig. 9.

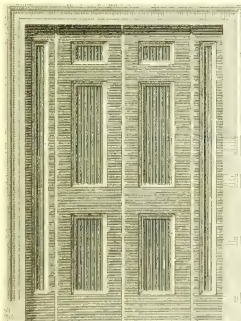


Fig. 10.

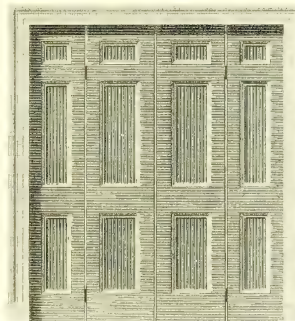


Fig. 11.



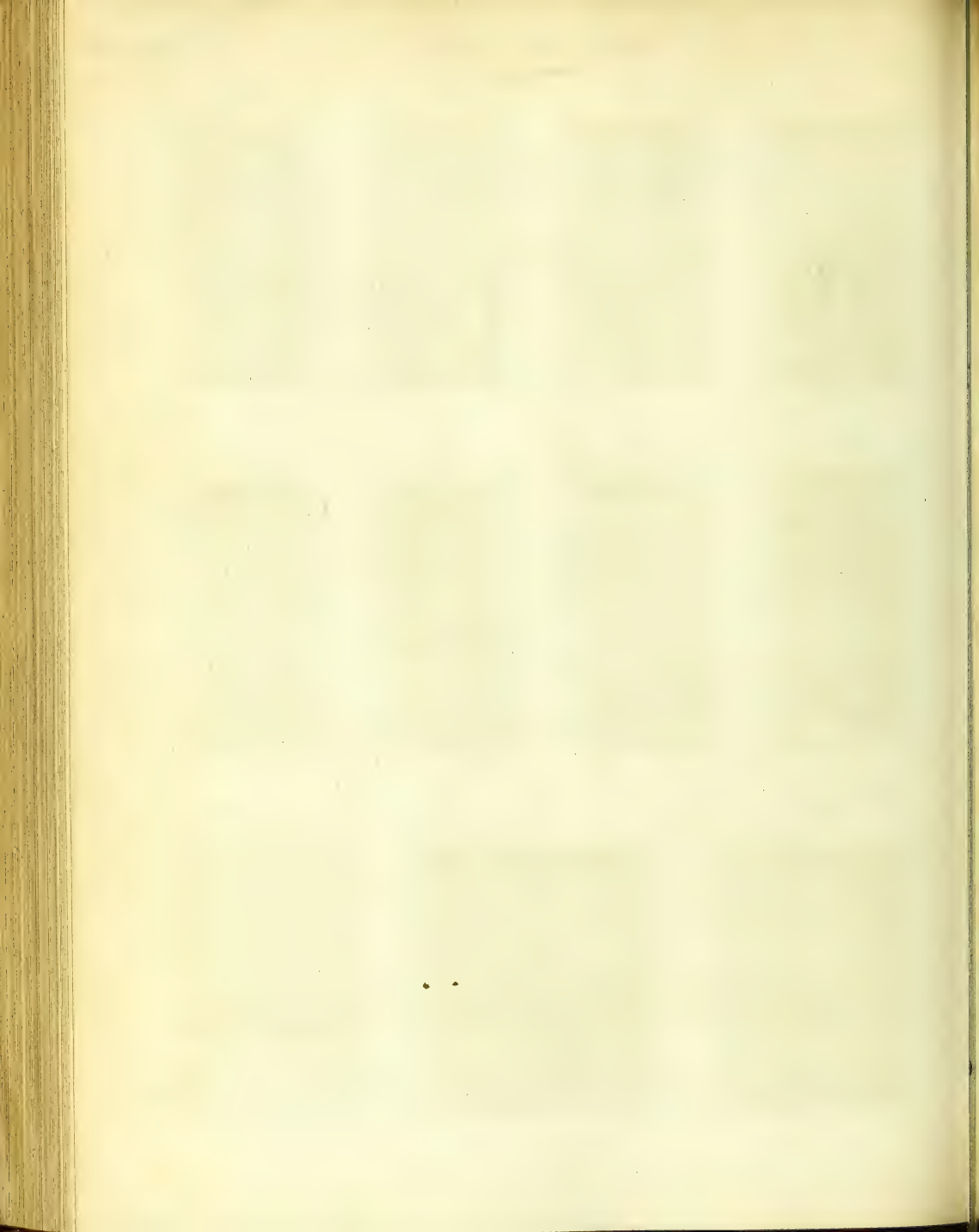


Fig. 1.

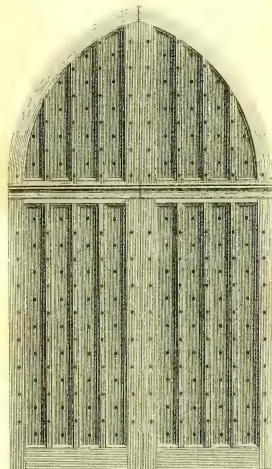


Fig. 2.

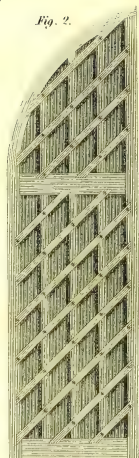


Fig. 3.

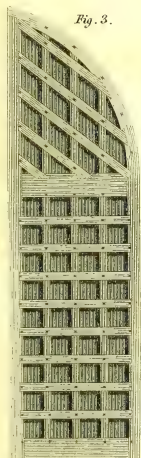


Fig. 4. N° 1.

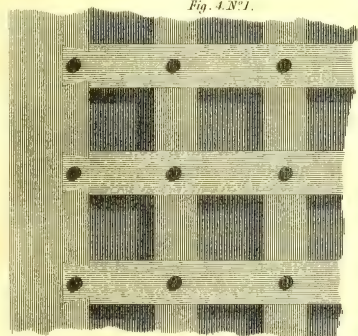


Fig. 4. N° 2.



Fig. 5. N° 1.

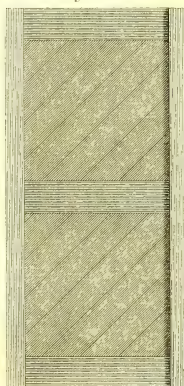
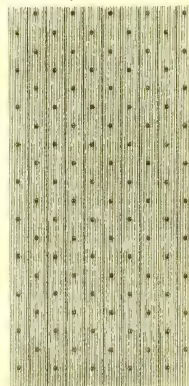
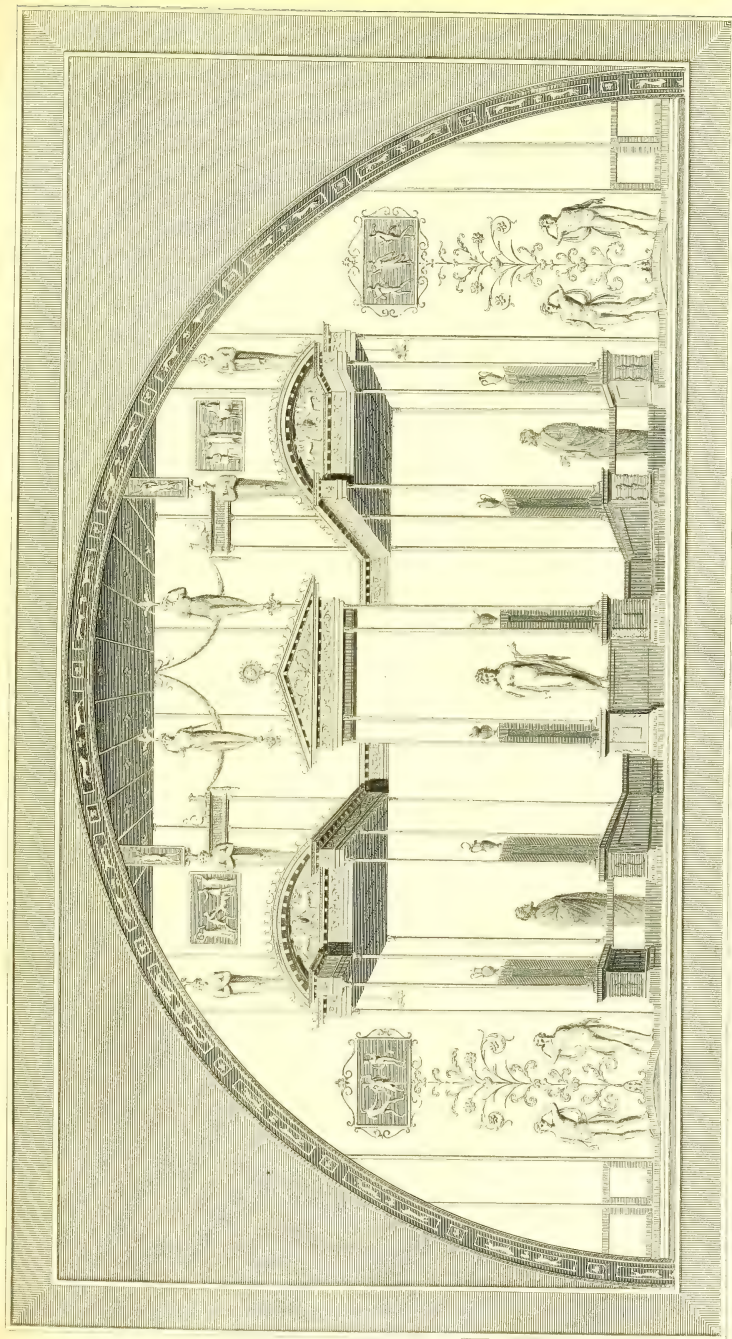
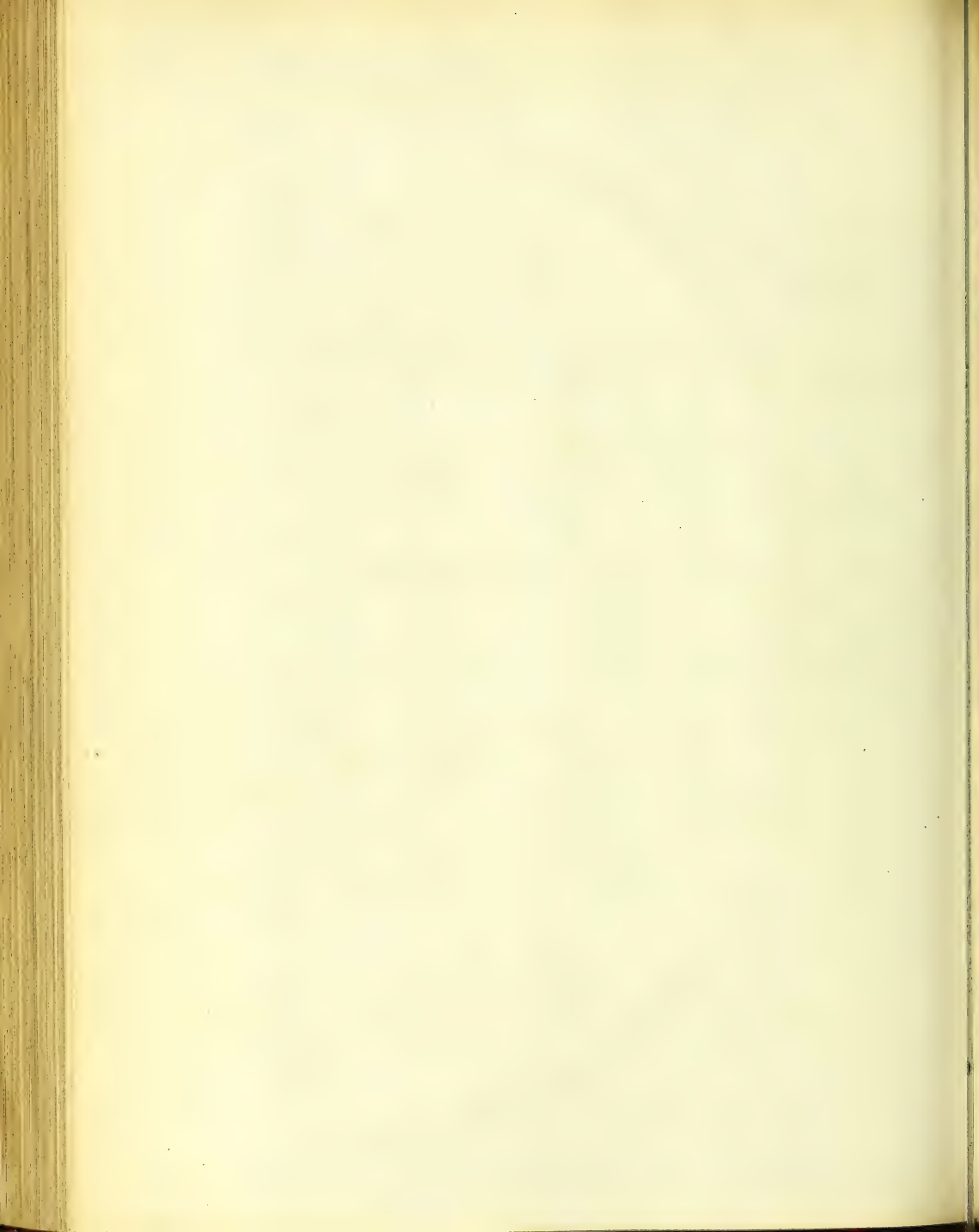


Fig. 5. N° 2.

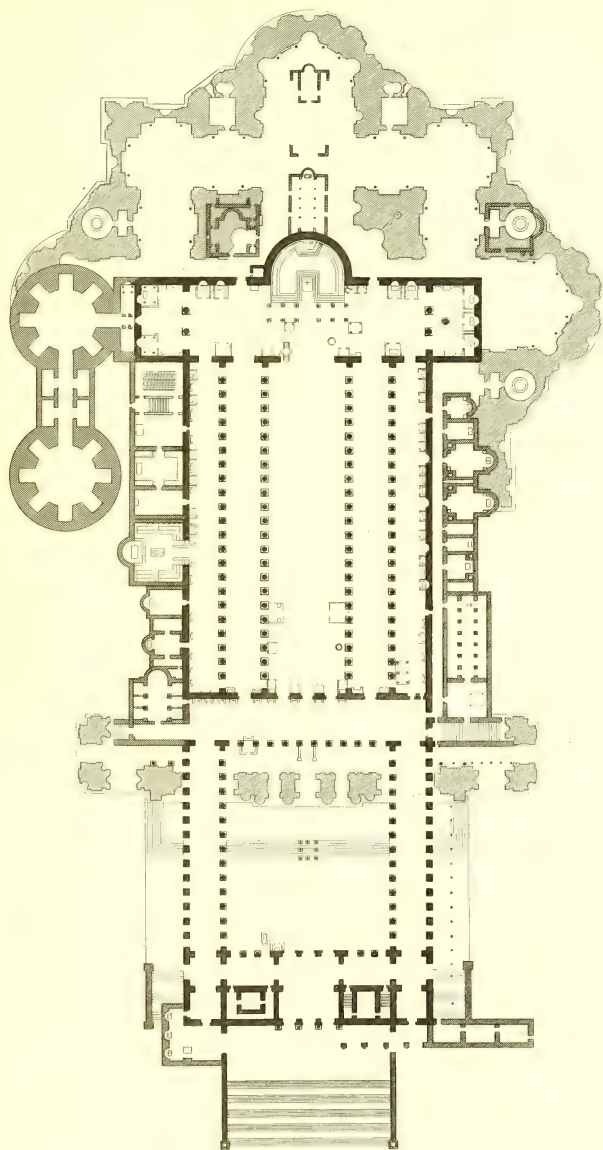






BASILICA.

*Incorporated Plans of the old Basilica of S.^t Peter's
and of the modern S.^t Peter's of the Vatican, from Costaguti.*



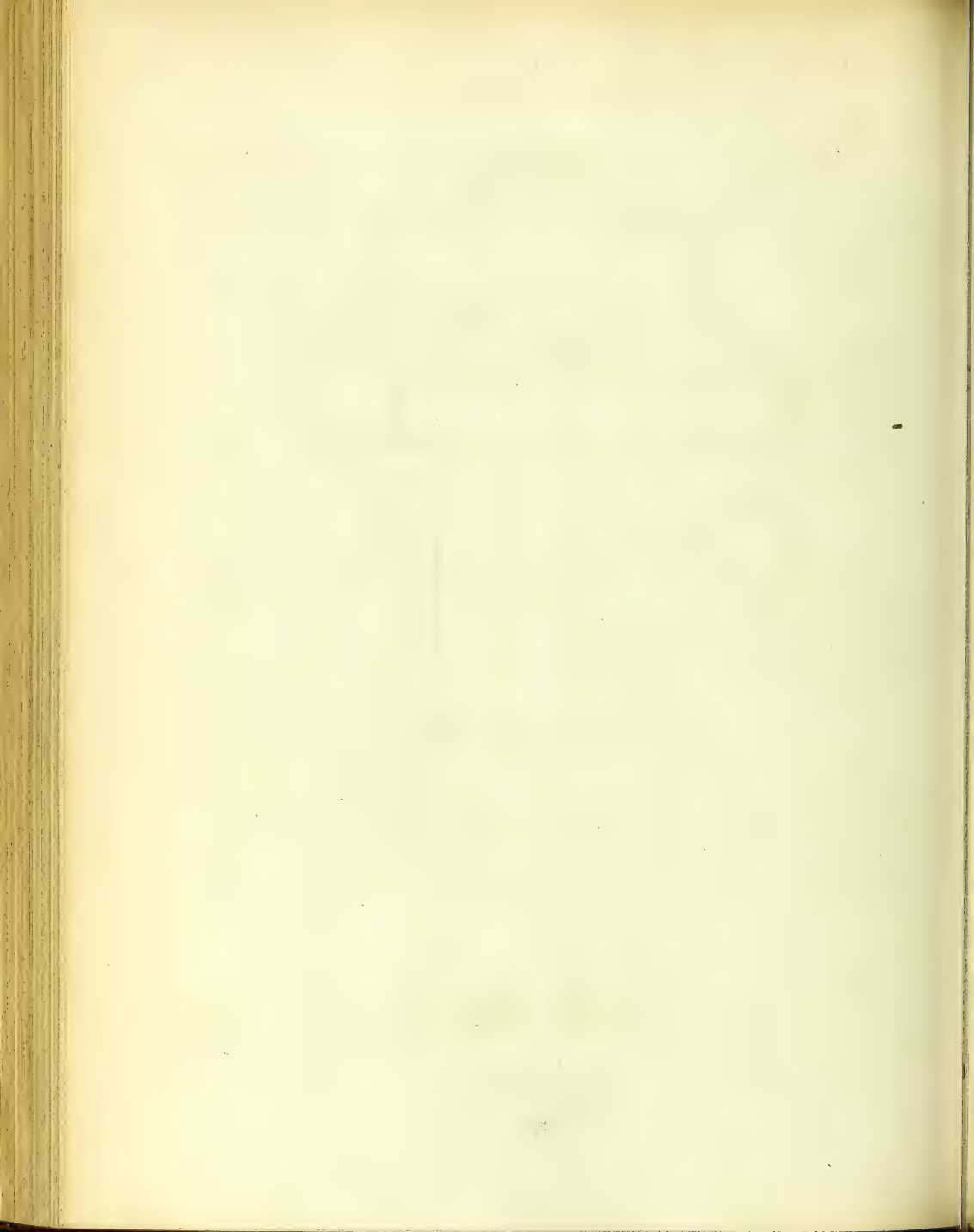


Fig. 1.

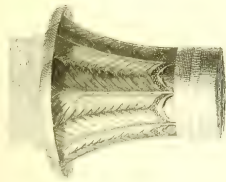


Fig. 2.

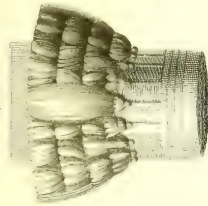


Fig. 3.

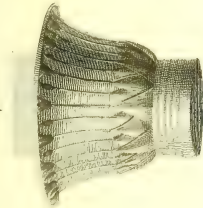


Fig. 4.

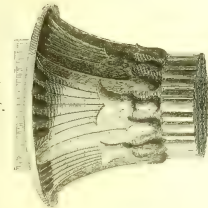


Fig. 5.

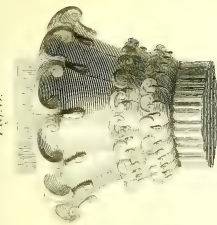


Fig. 6.

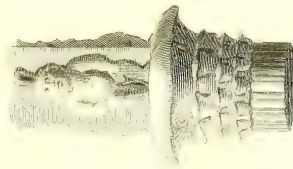


Fig. 7.



Fig. 8.

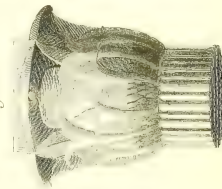
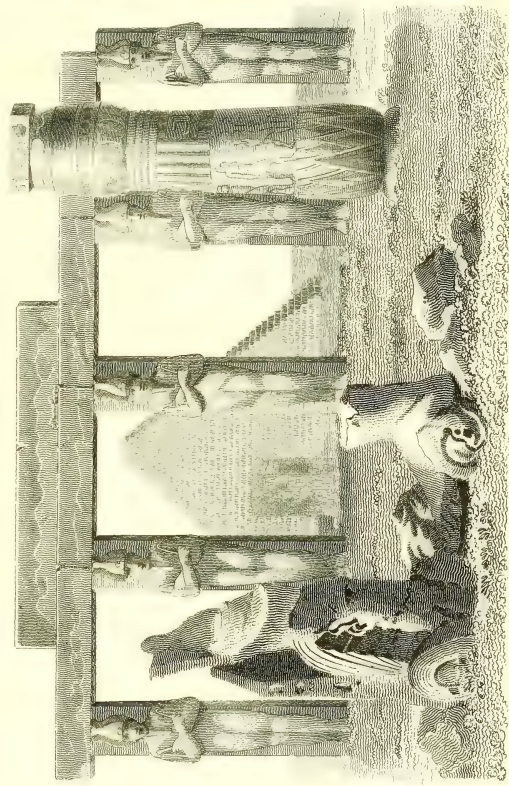
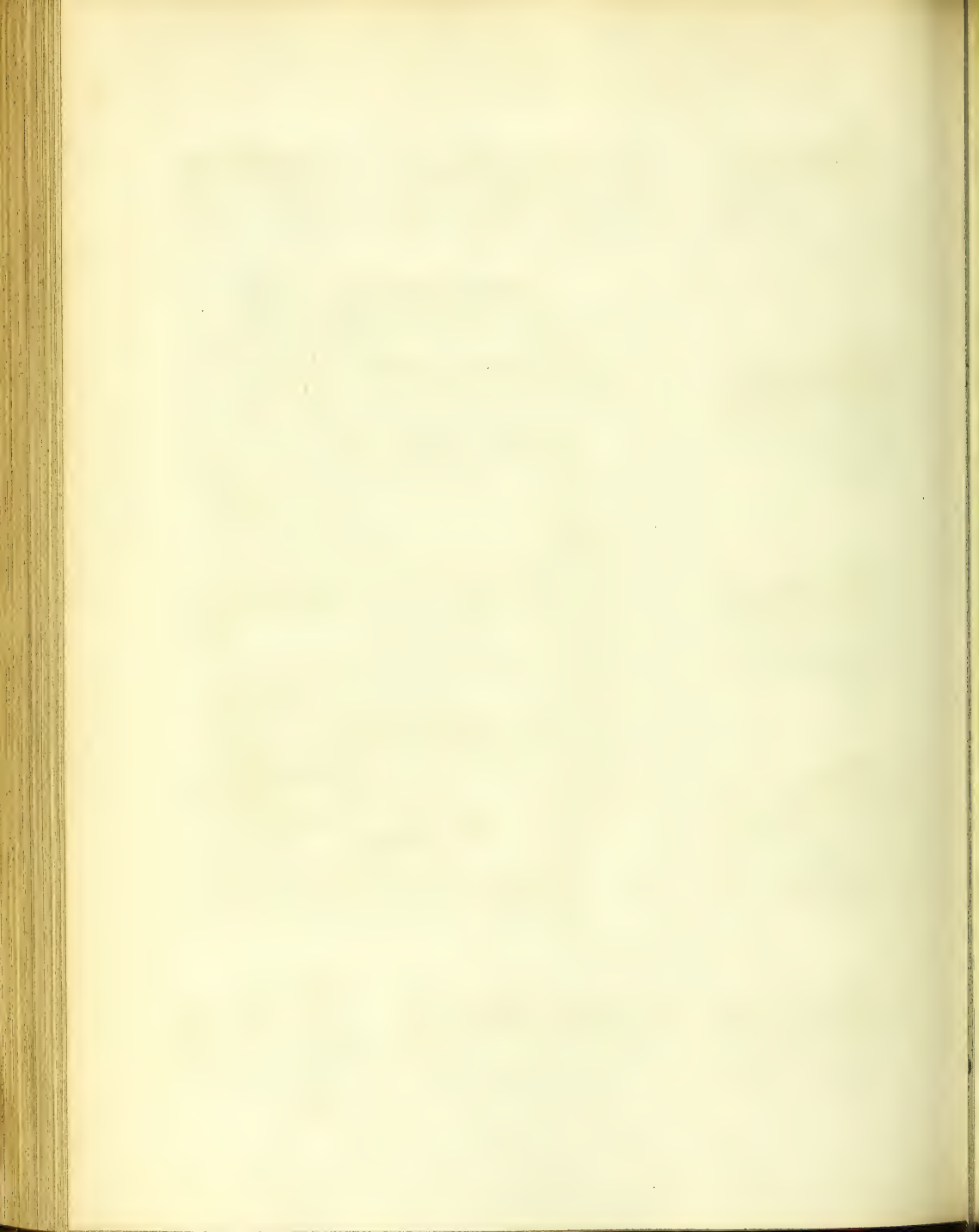


Fig. 9.



Fig. 10. FRAGMENT.





CORINTHIAN AND COMPOSITE CAPITALS.

Fig. 1.

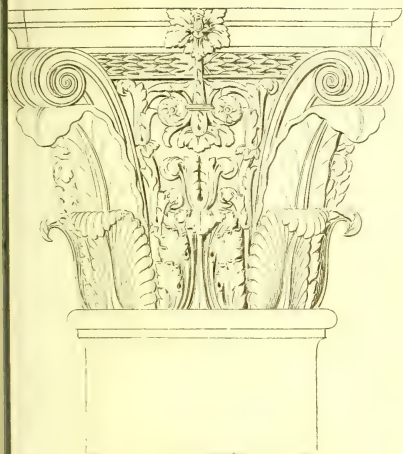


Fig. 2.

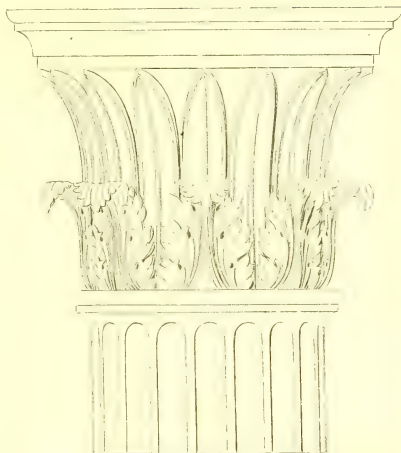


Fig. 3.

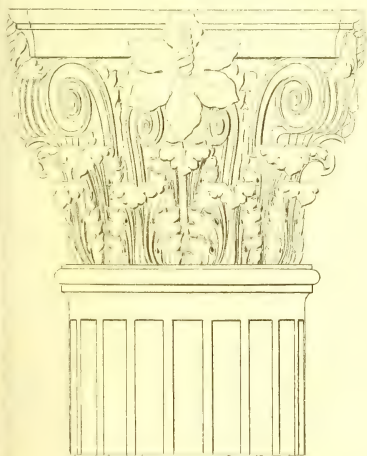
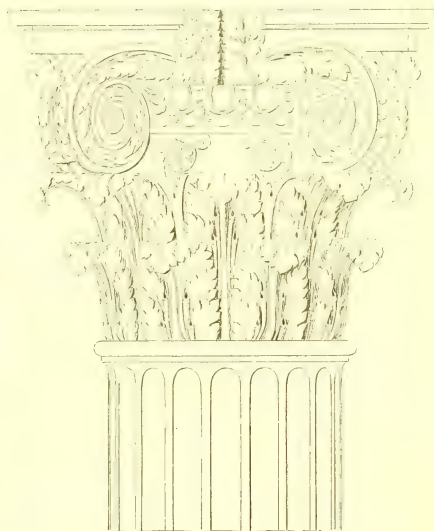
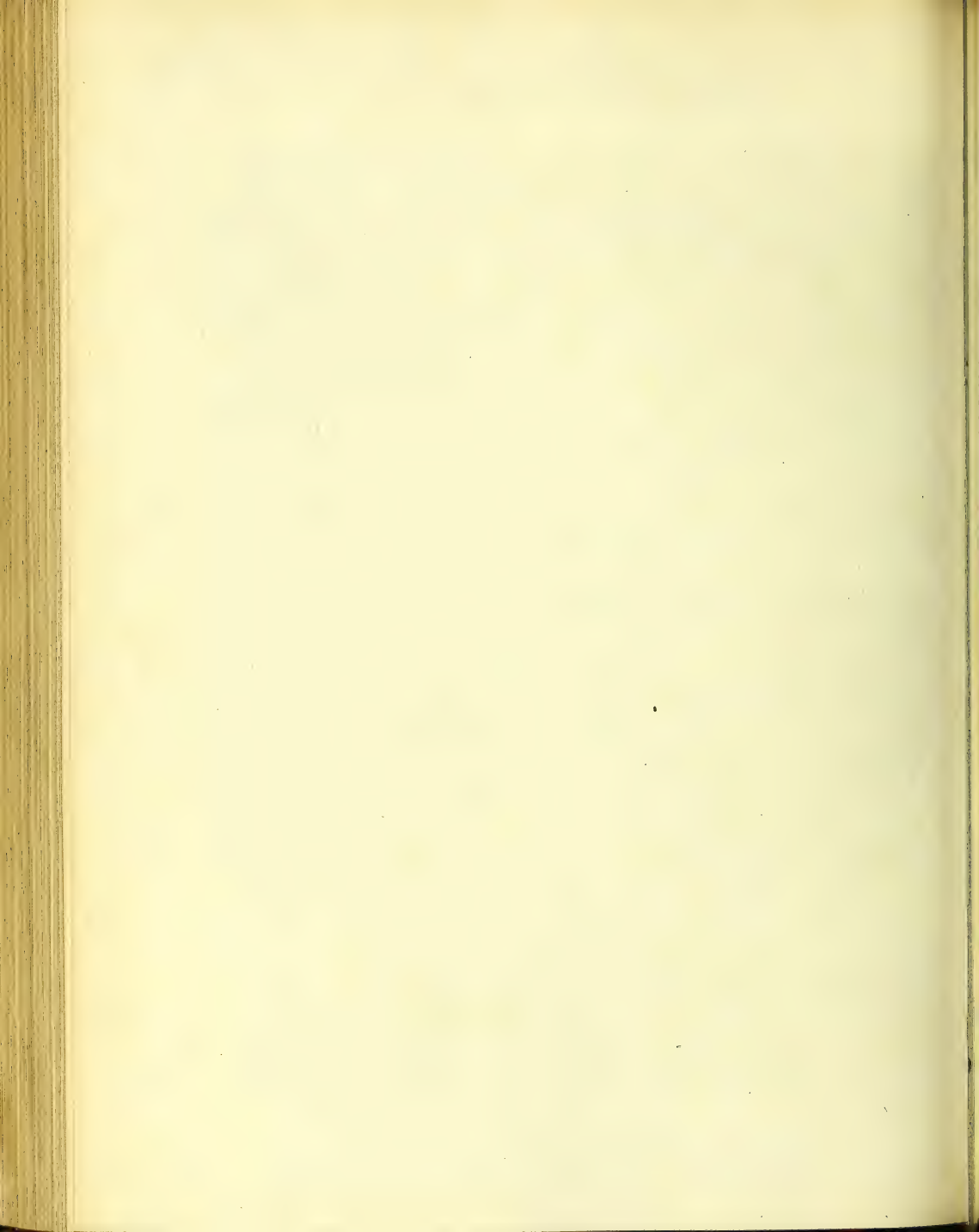
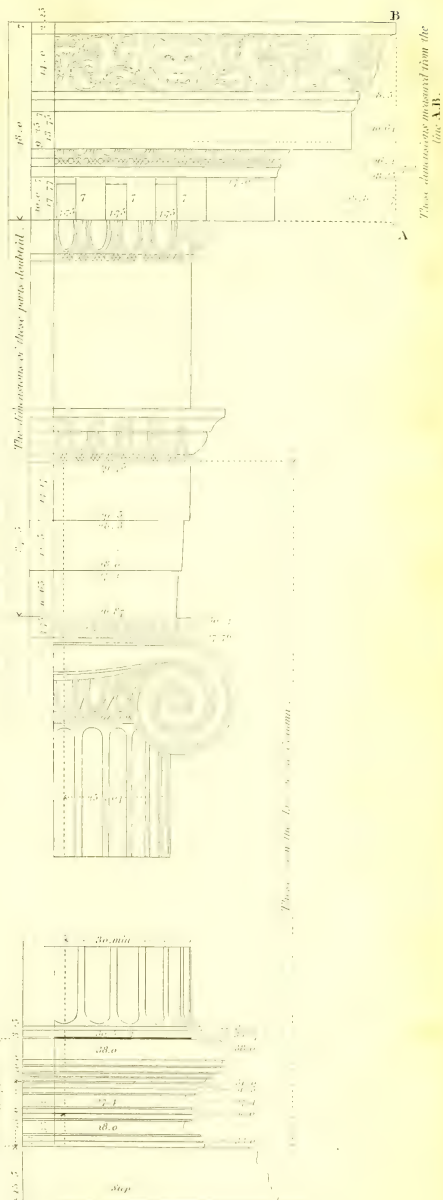
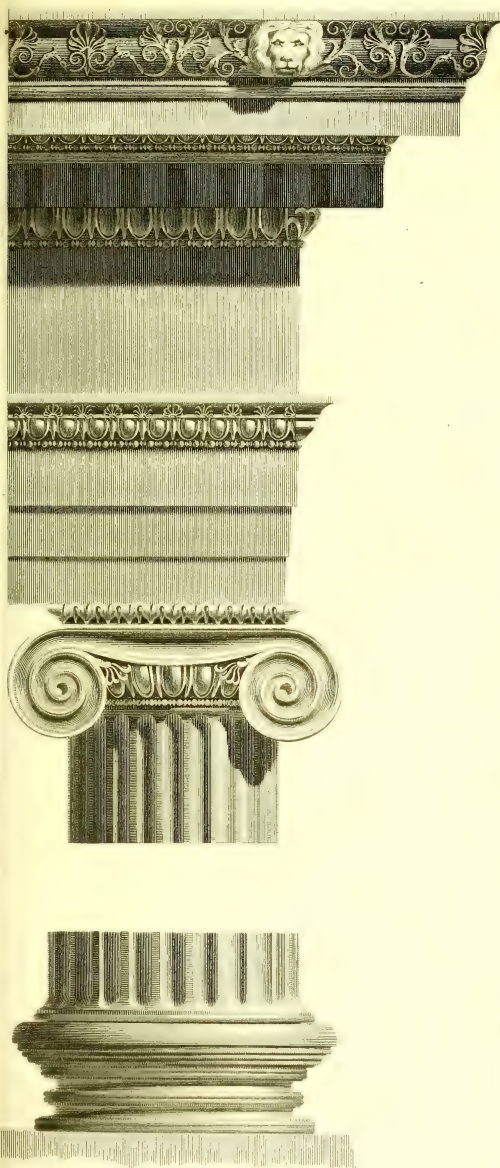


Fig. 4.



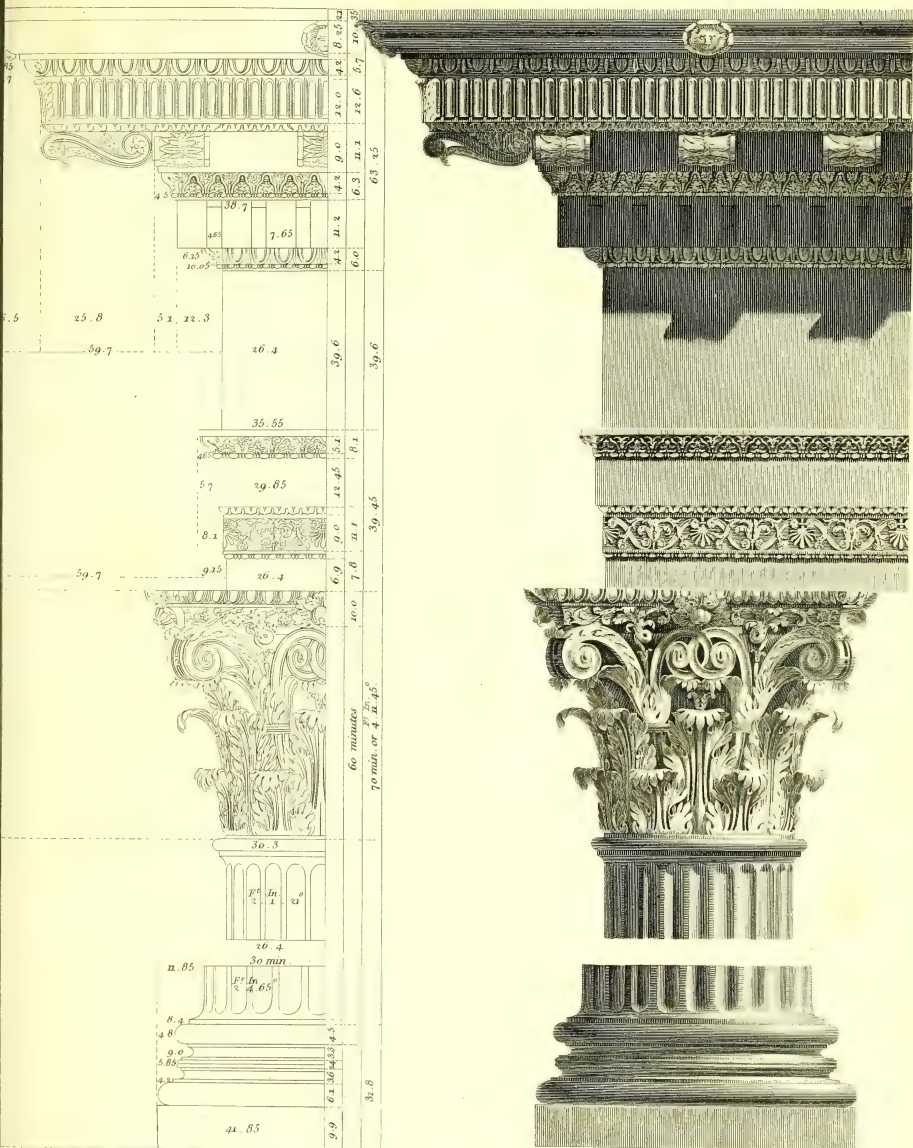


FROM THE TEMPLE OF MINERVA POLIAS, AT PRIENE.

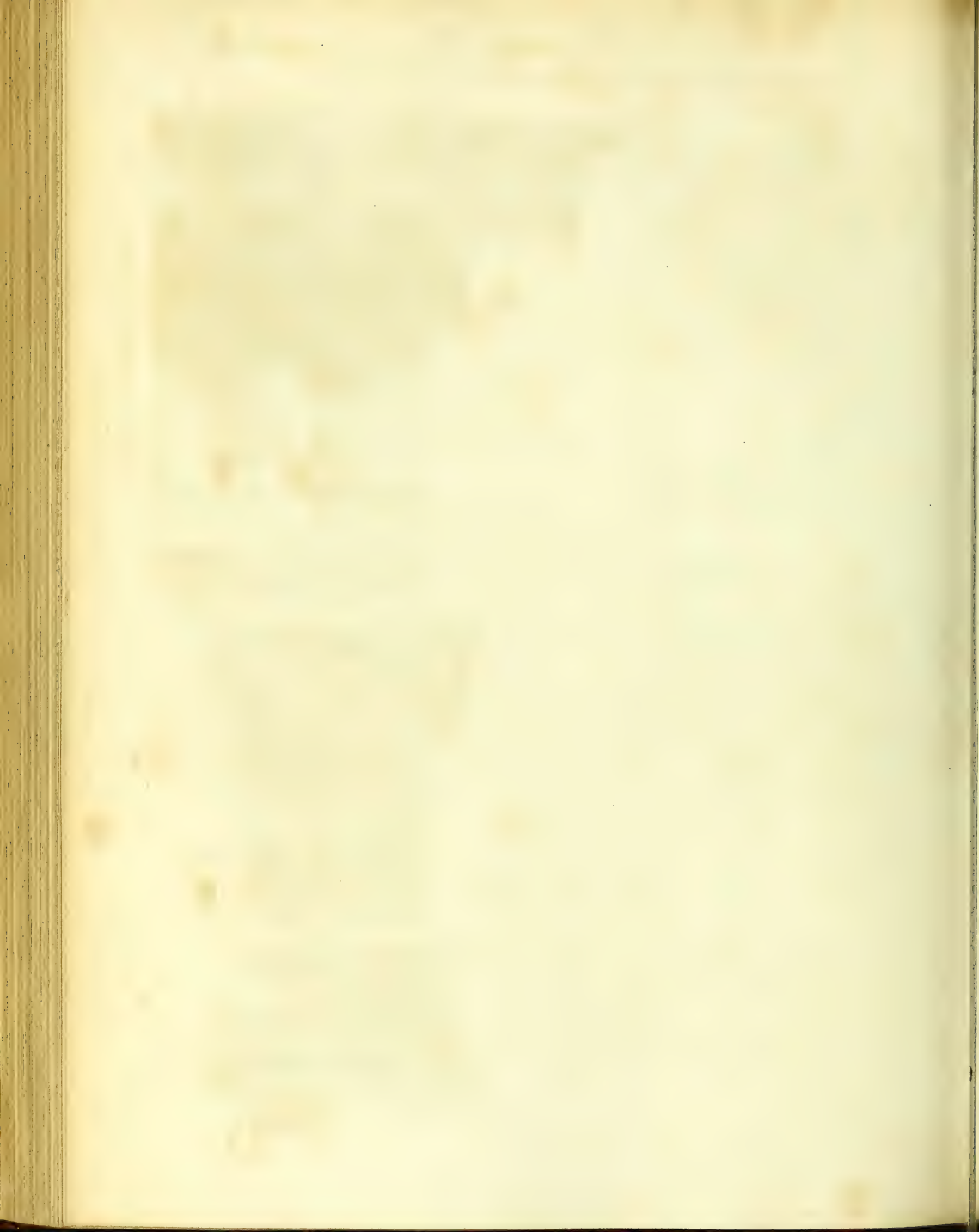


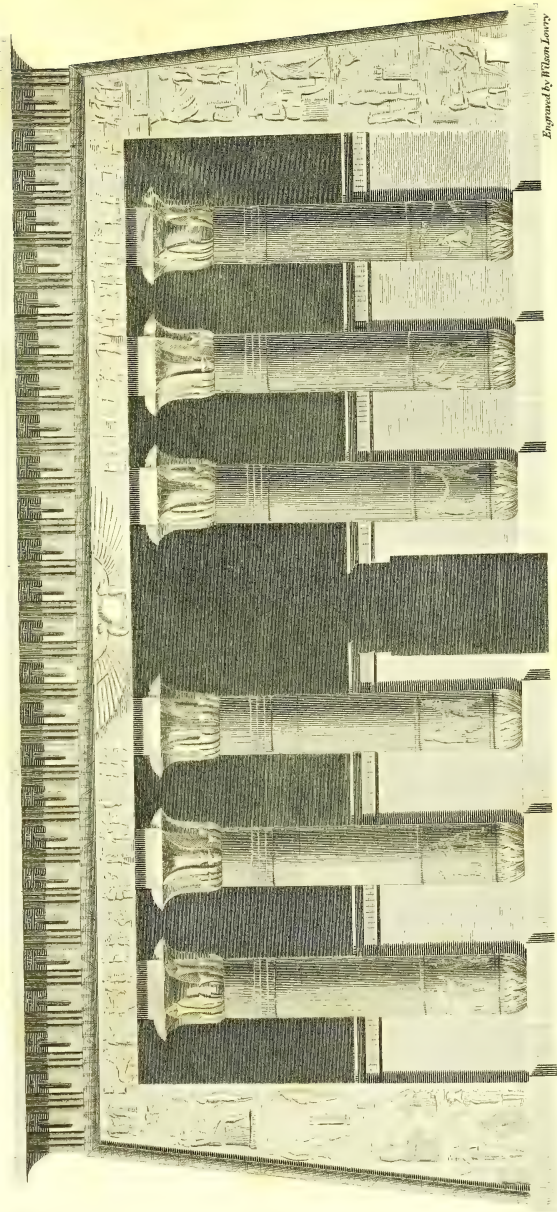
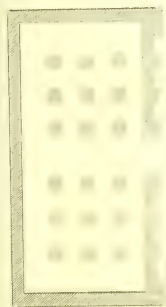
FROM THE TEMPLE OF JUPITER STATOR IN ROME.

THE CORINTHIAN ORDER.



*Tablature and Capital drawn by Wilson Lowry from a Cast in the Possession of John Soane Esq^r. R.A.
Dimensions reduced to Minutes and English feet from Palladio.*



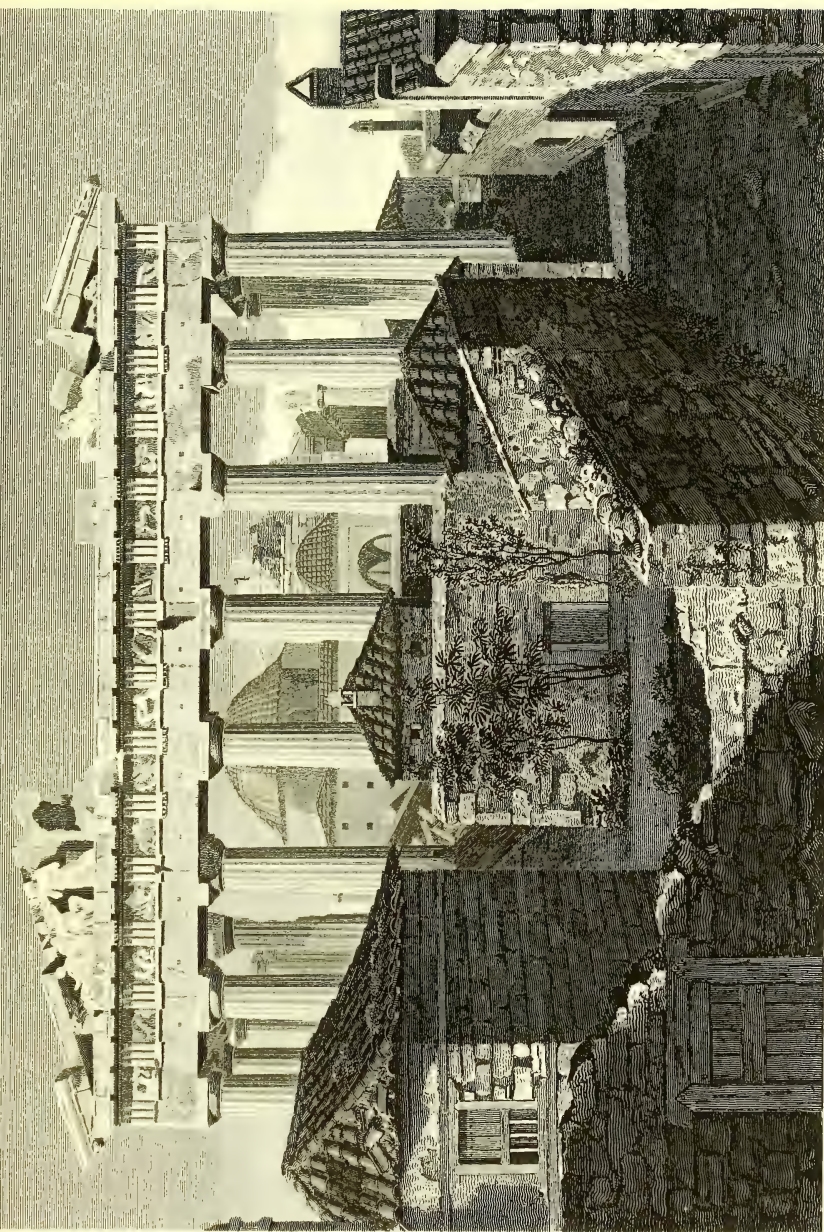


Designed by William Lenoxy

PLAN AND ELEVATION OF A PORTICO AT LATOPOLIS.

Published as the *Art Director*, 1887, by Longman, Illustr. Booc & Orme, Paternoster Row.



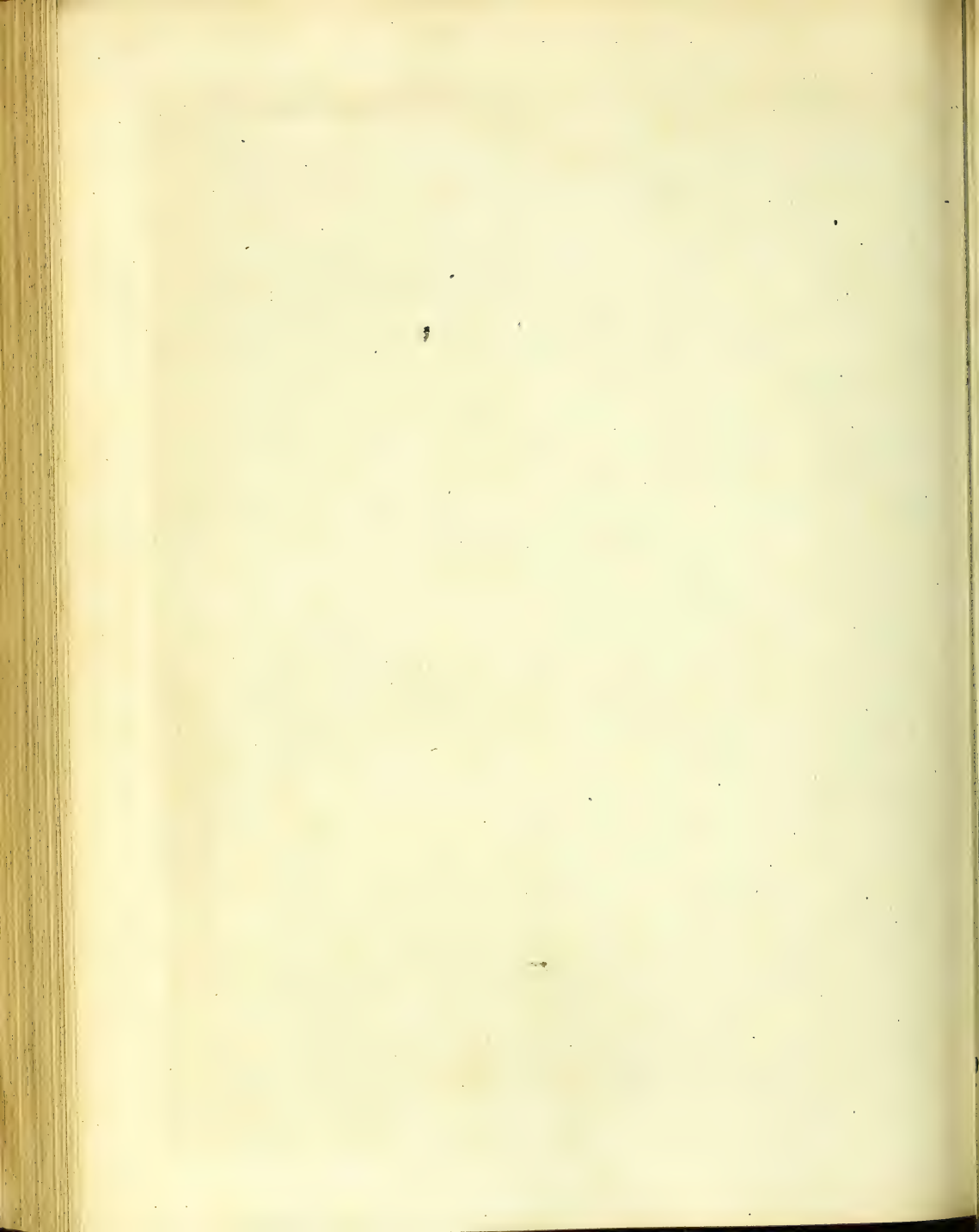


From Stuart

EASTERN PORTICO OF THE PARTHENON ON THE ACROPOLIS OF ATHENS.

Published as the Act directs Aug^d 1853 by Longman & Bees, Paternoster Row.

Engraved by Wilson Lowry.



BRIDGES.

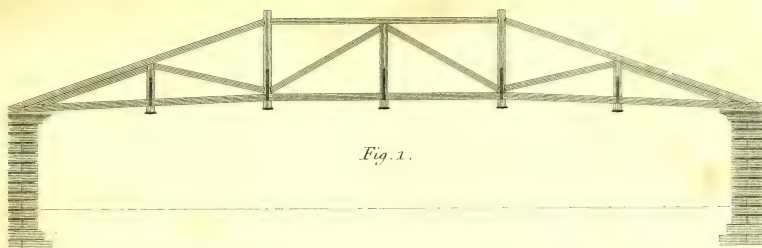


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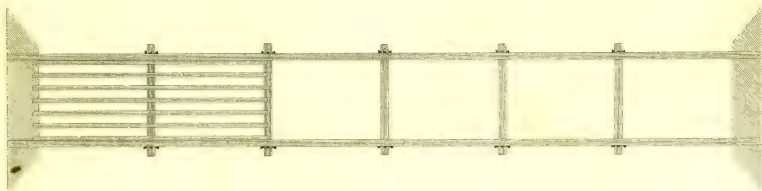
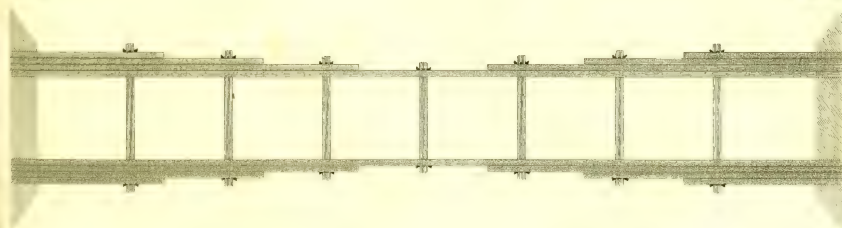


Fig. 2.





BRIDGES.

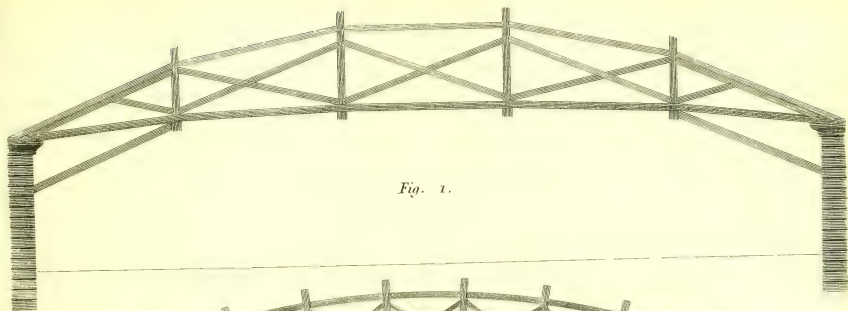


Fig. 1.

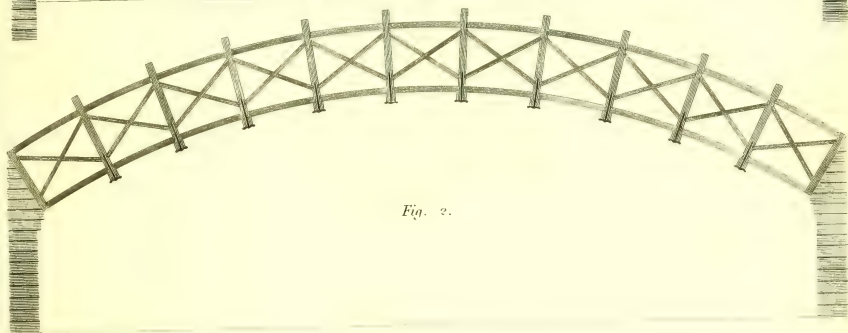


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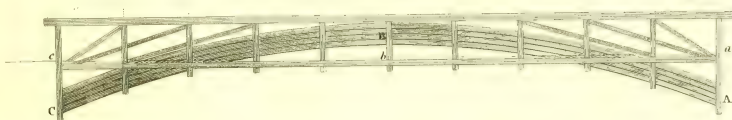


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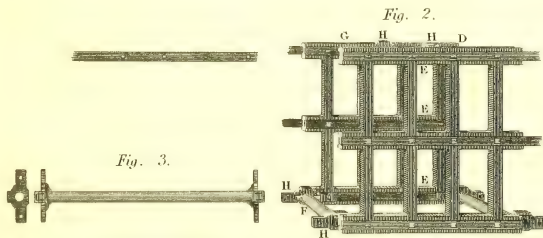


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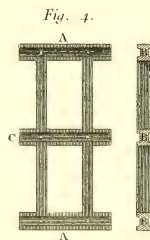
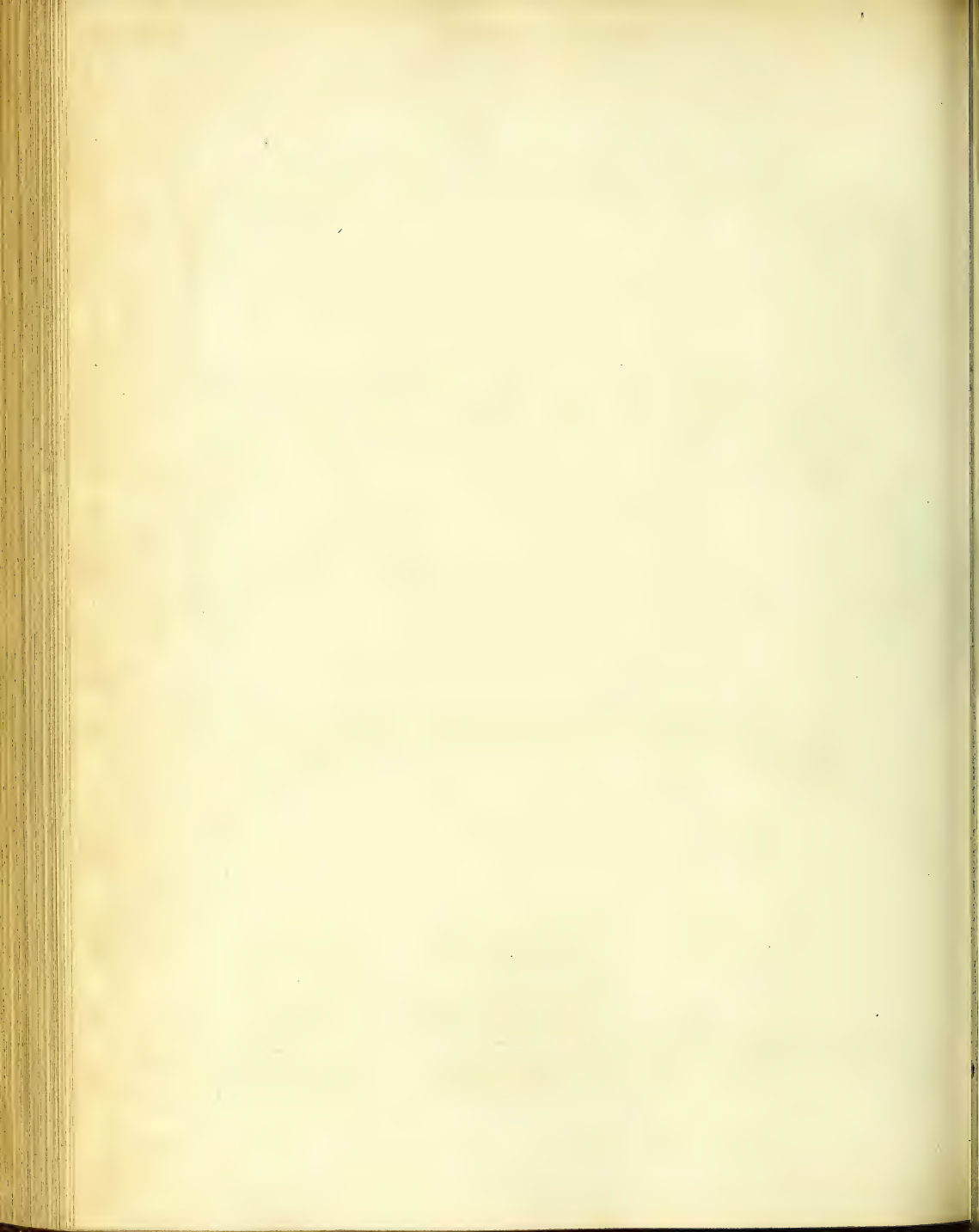
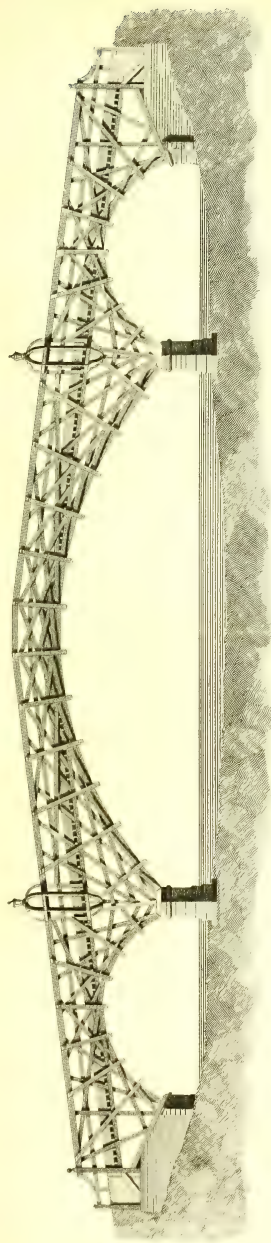


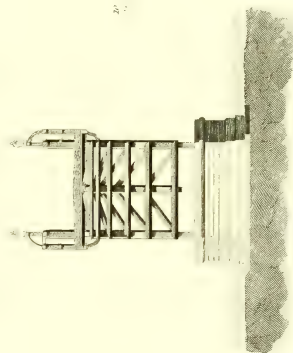
Fig. 4.



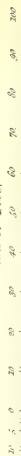
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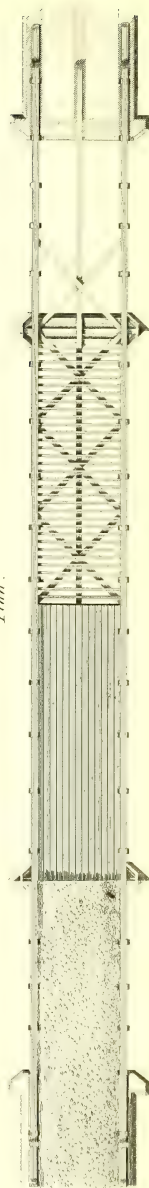
Chase Section.

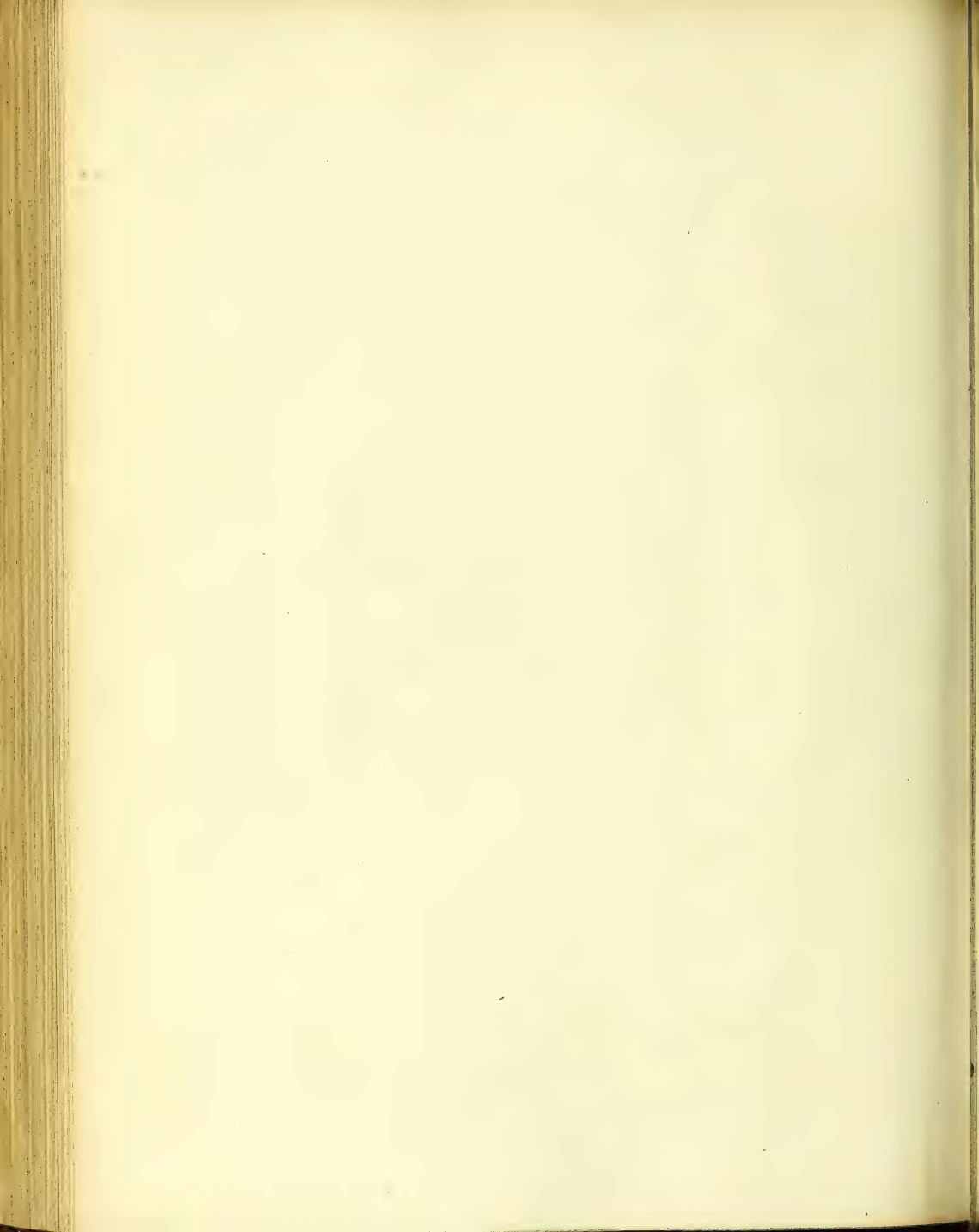


Scale of Feet.

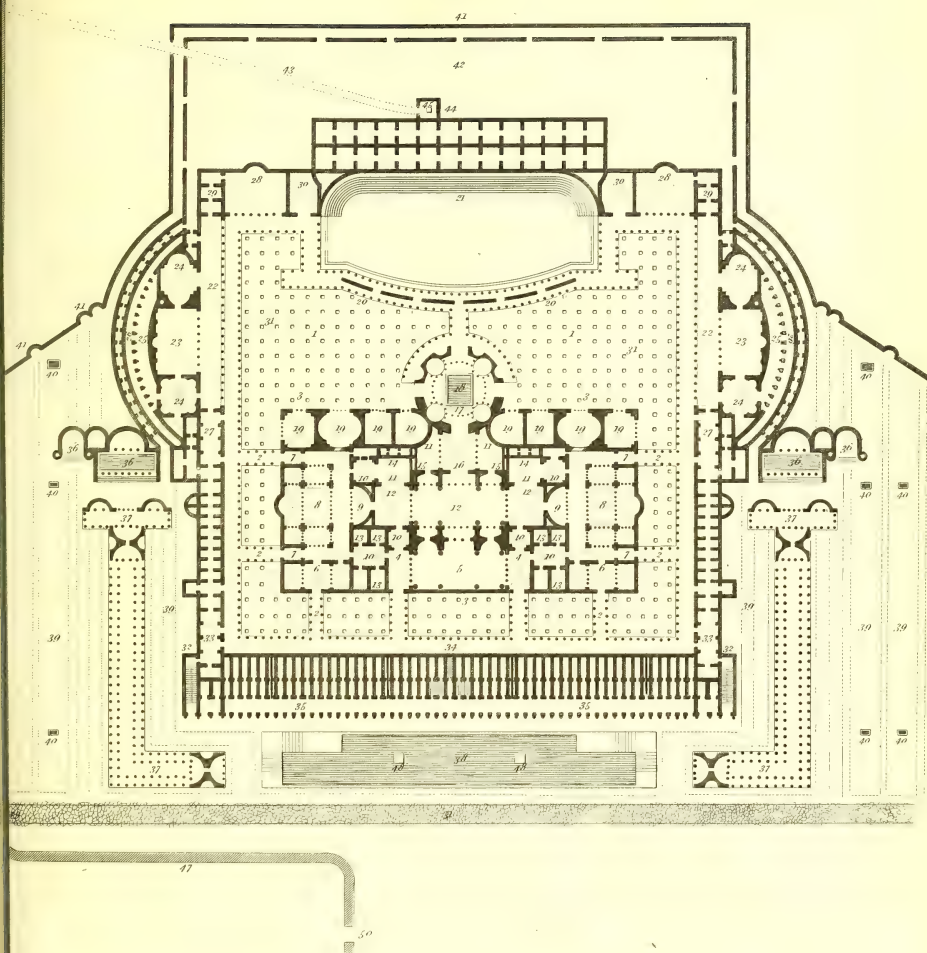


Plan.



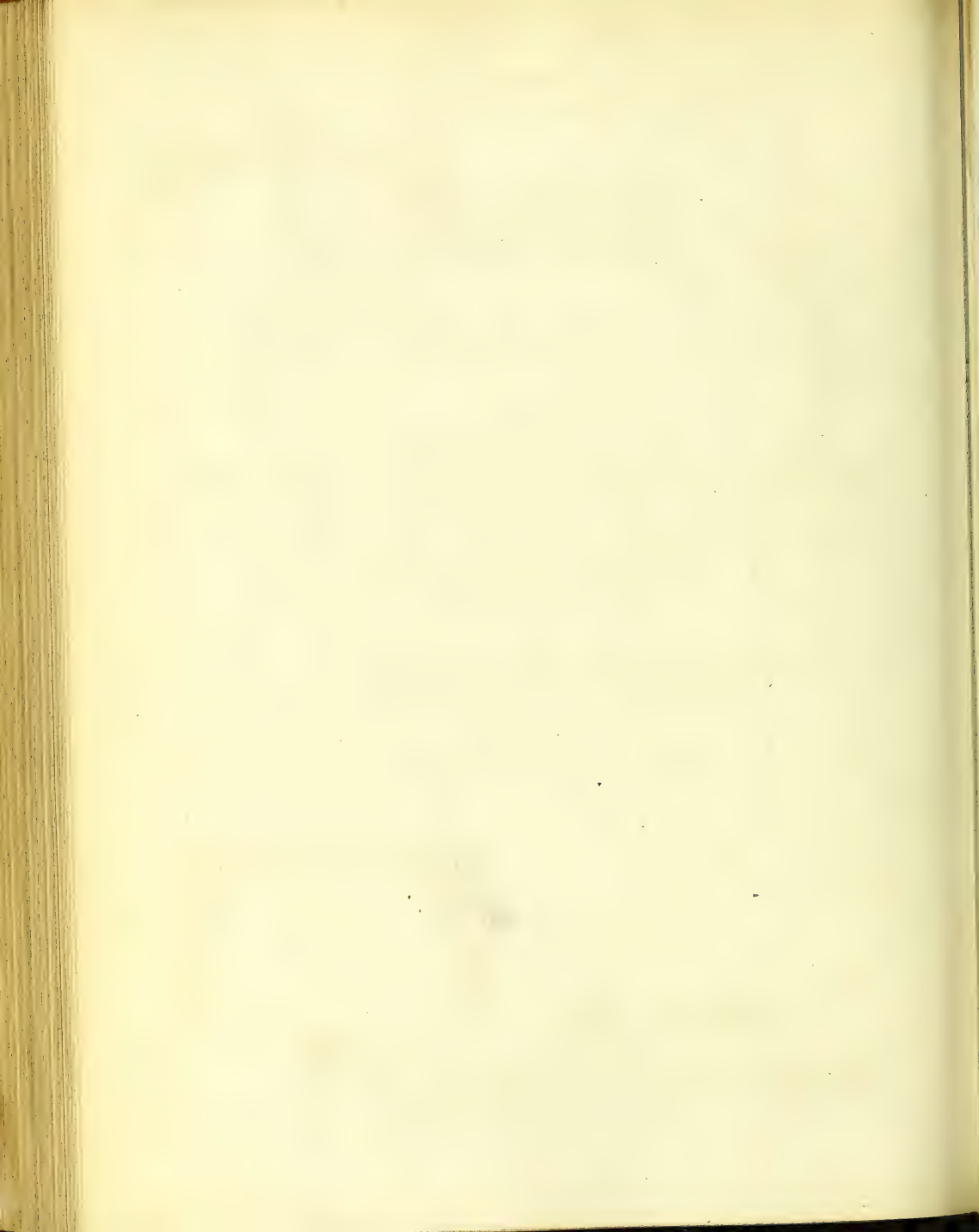


Plan

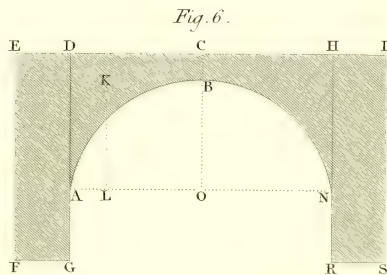
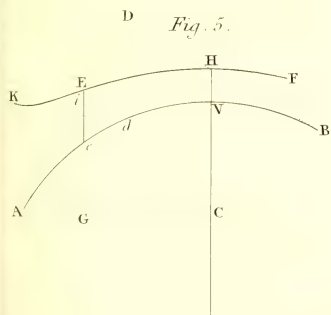
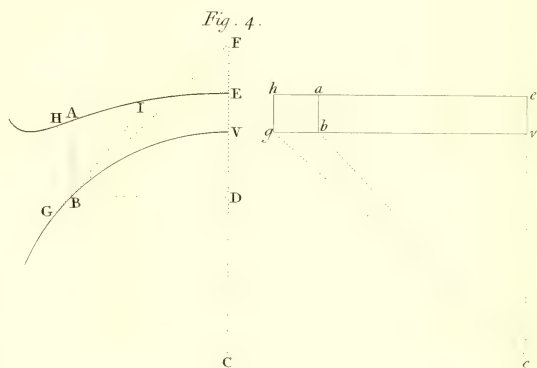
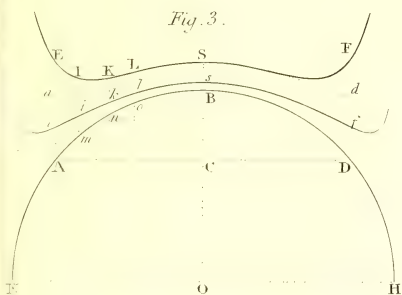
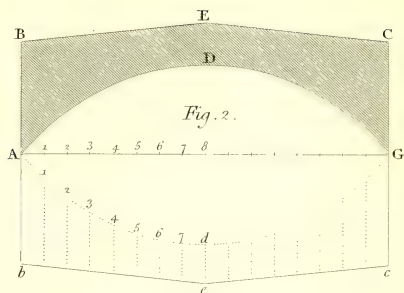
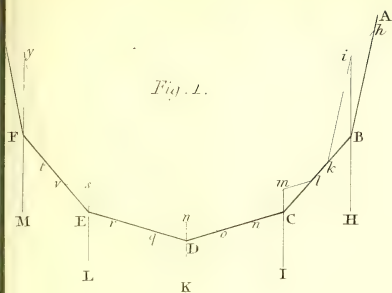


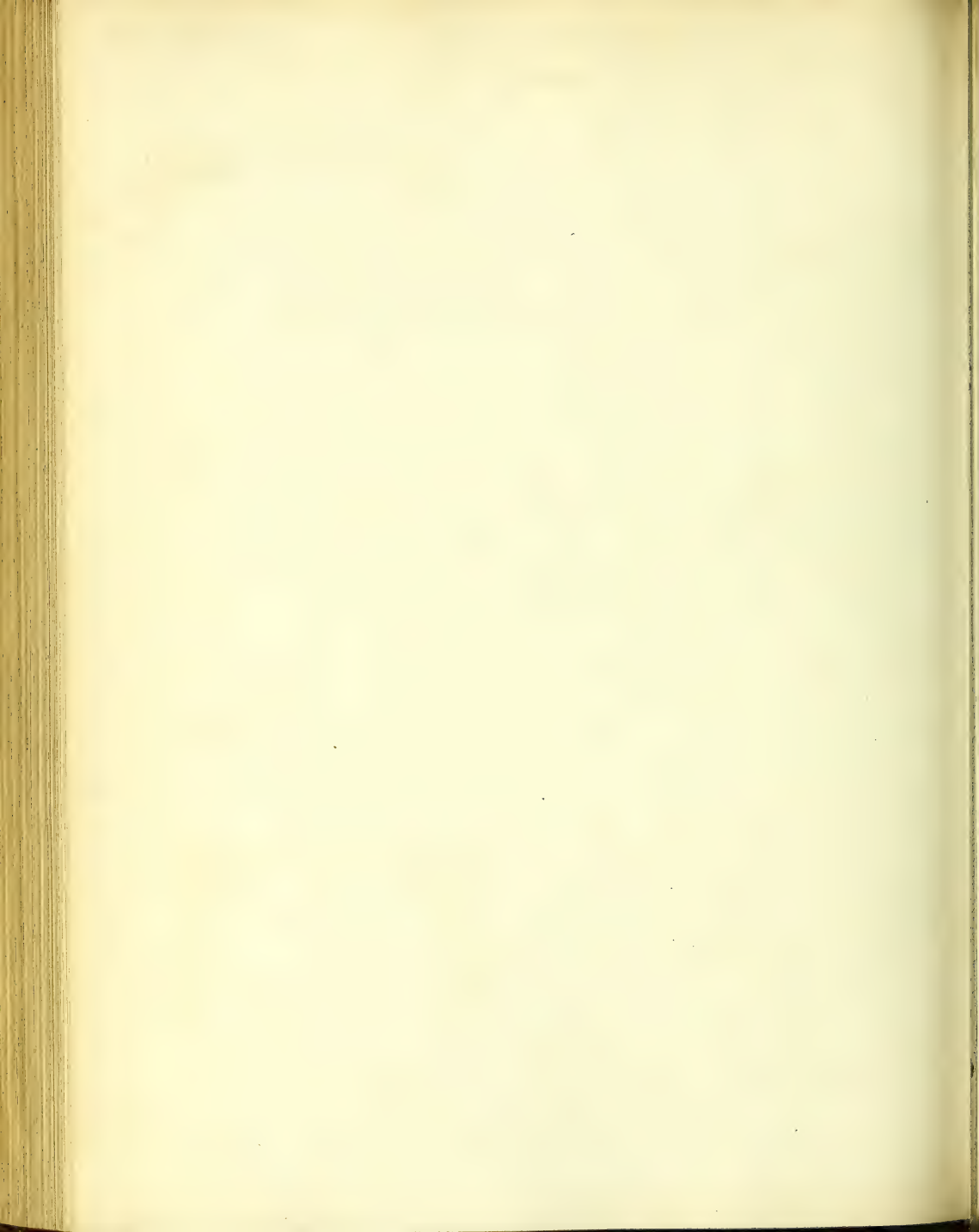
Section





BRIDGE.





ARCHITECTURE

OBLIQUE ARCH

PLATE XLIII.

Fig. 1.

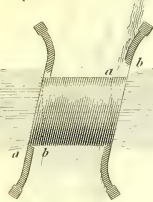


Fig. 2.

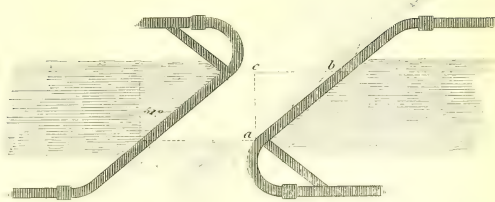


Fig. 3.

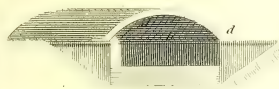


Fig. 5.



Fig. 4.



Fig. 7.

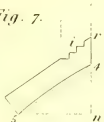
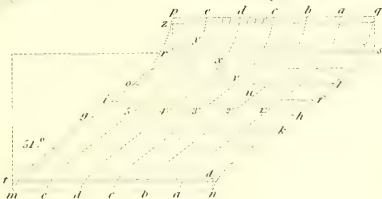


Fig. 8.



p
q h

Fig. 6.



Fig. 9.

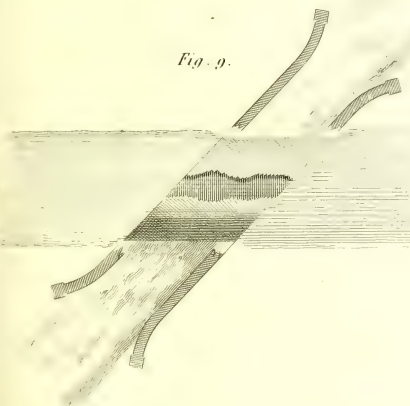
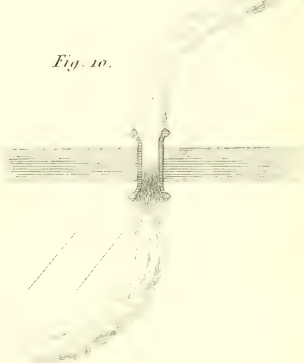
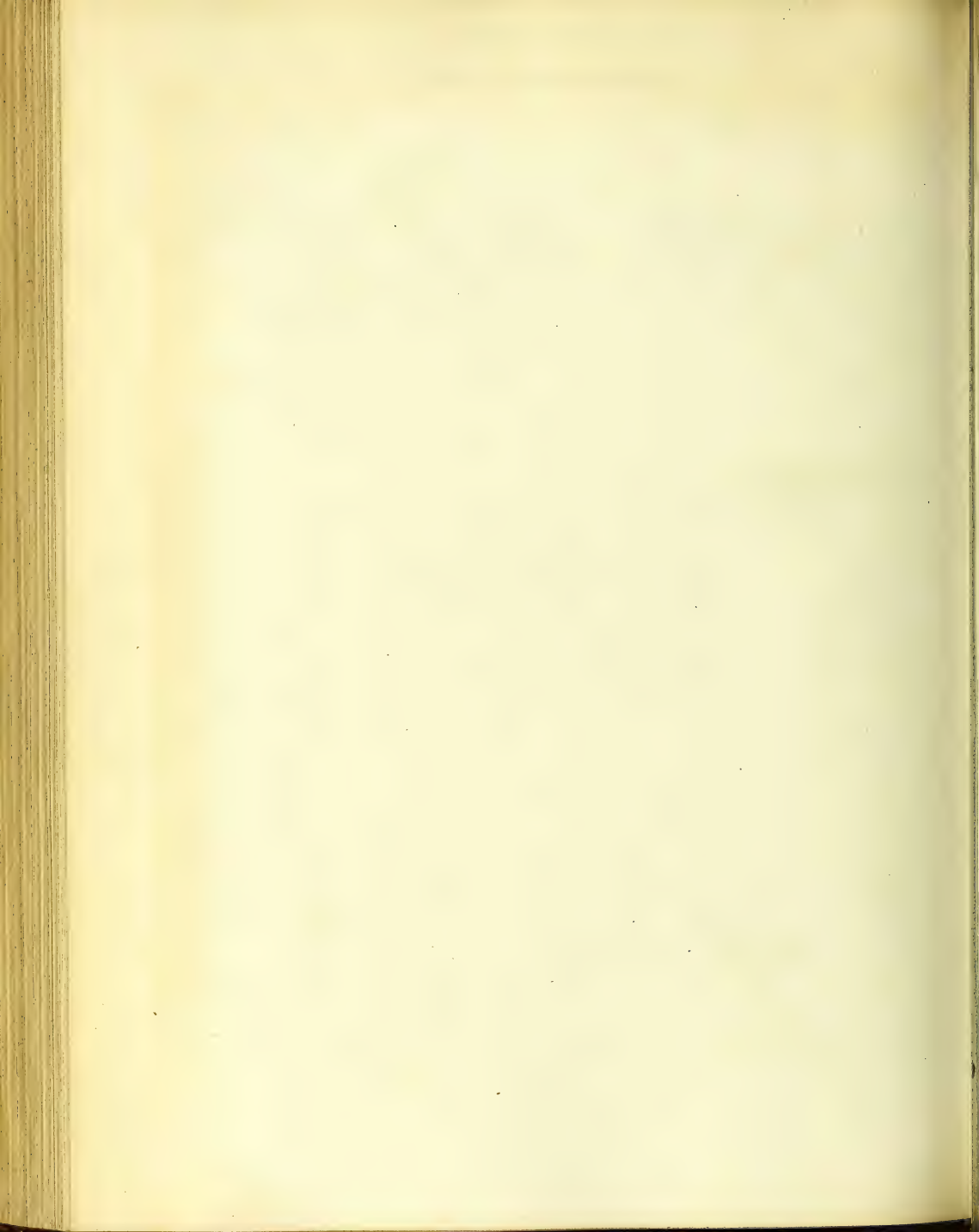
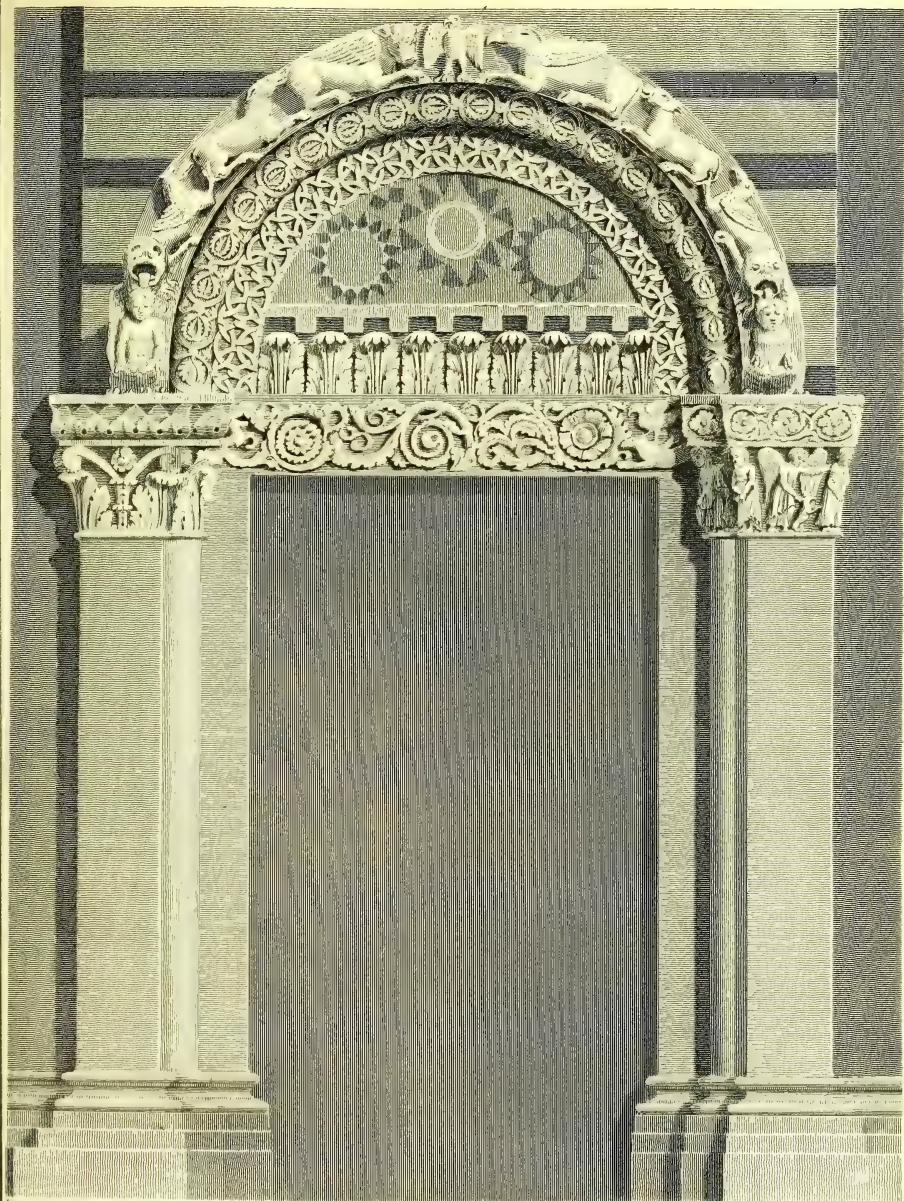


Fig. 10.







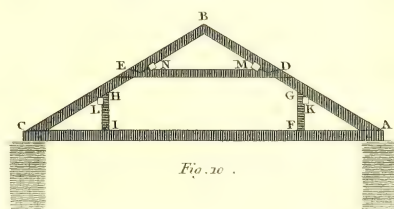
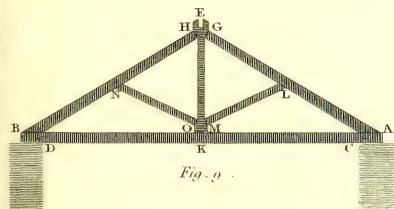
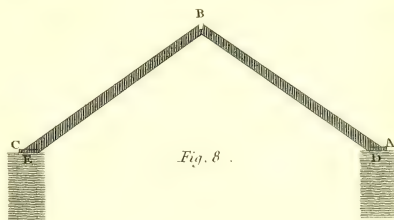
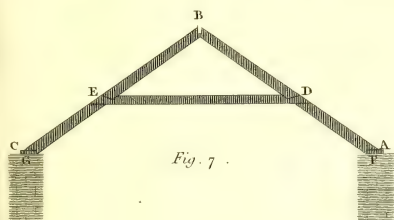
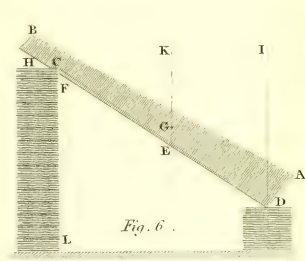
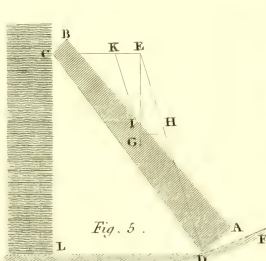
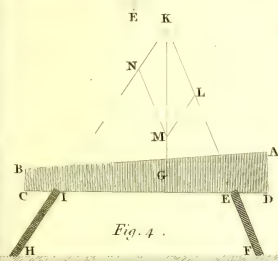
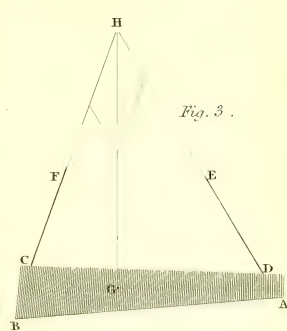
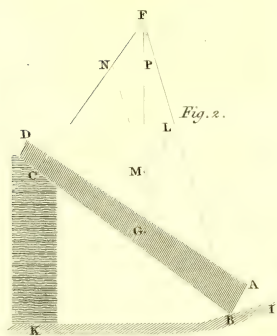
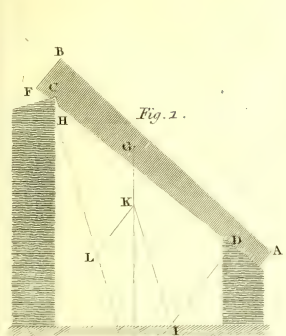
Drawn by J. Plummer Esq. R.A.

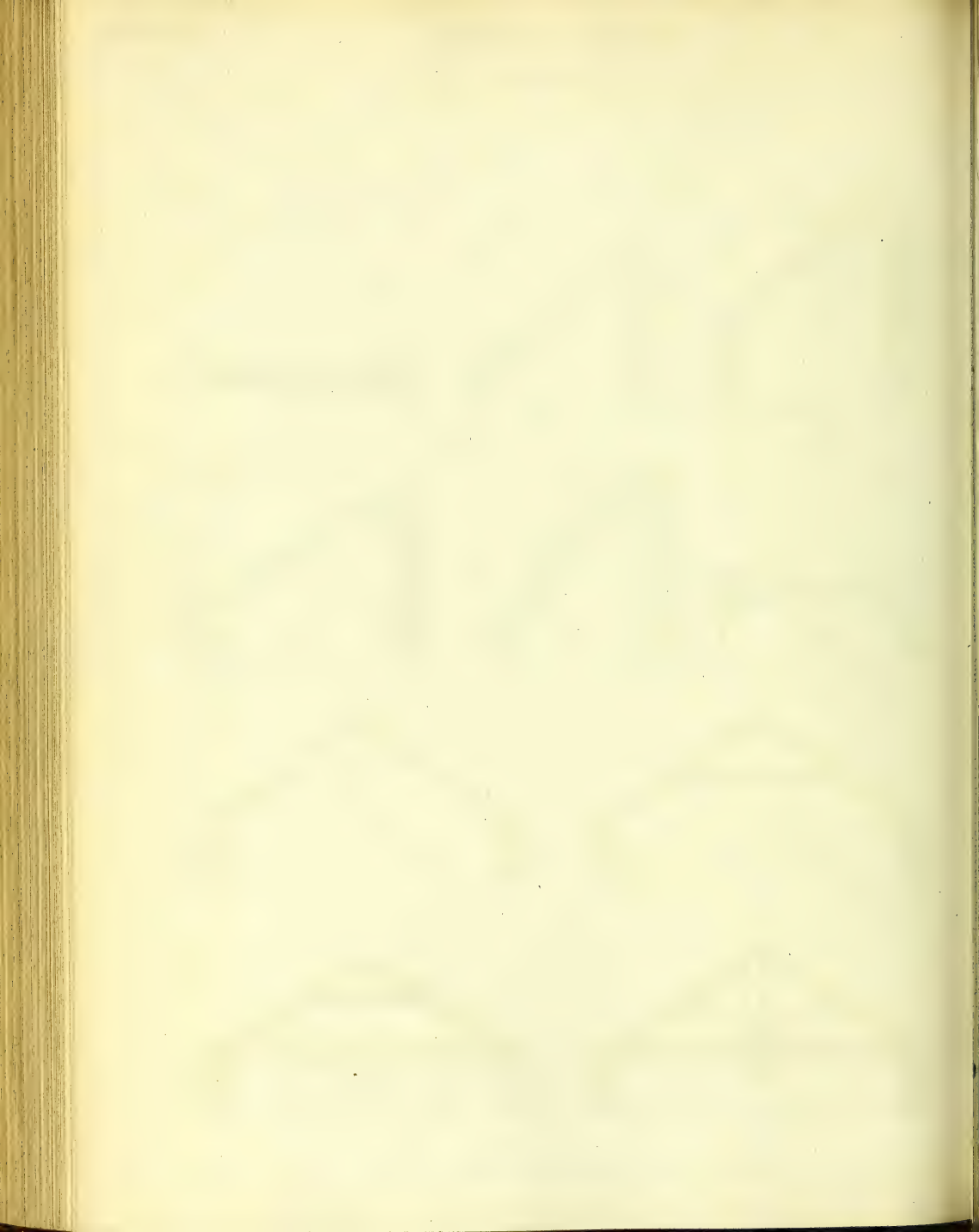
WEST DOOR OF THE CATHEDRAL OF CARRARA.

Late in the Duchy of Massa Carrara in Italy, built about the year 1151 or soon after according to the Church Mss.

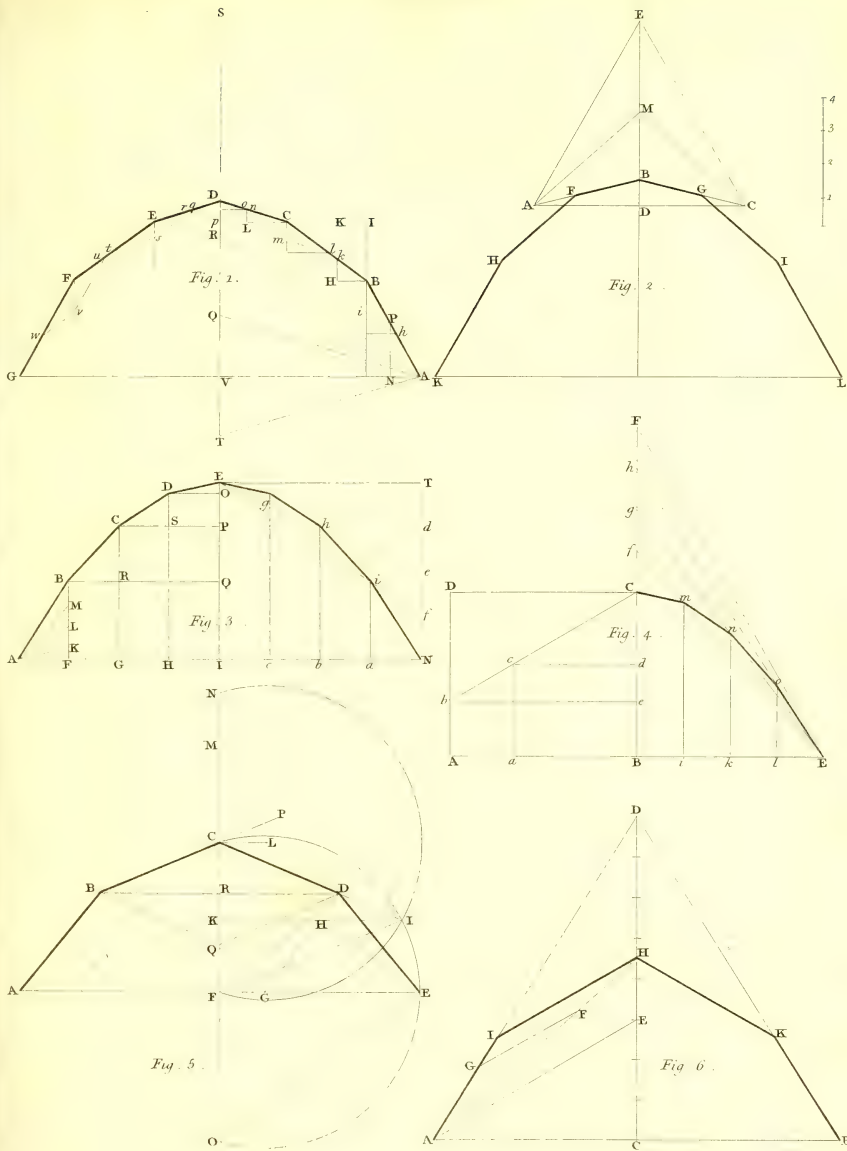


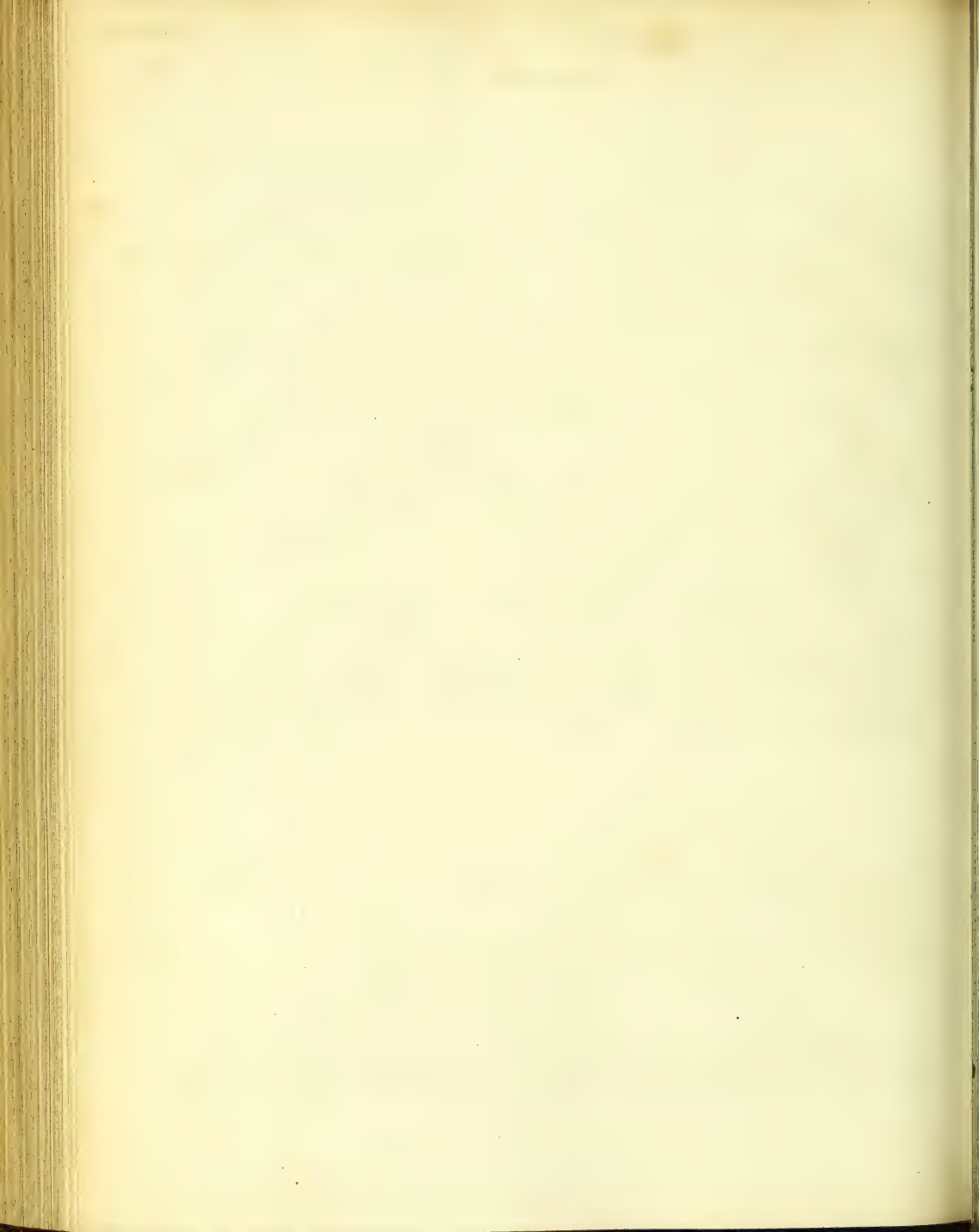
CARPENTRY.





CARPENTRY.





ROOFS.

Fig. 2.

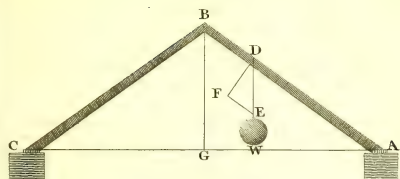


Fig. 1.

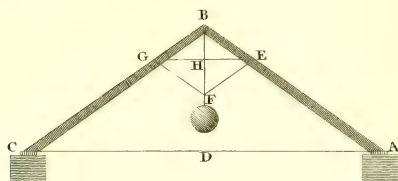


Fig. 4.

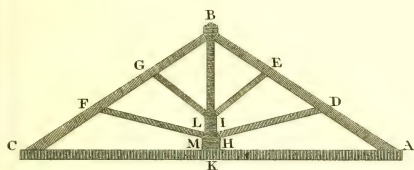


Fig. 3.

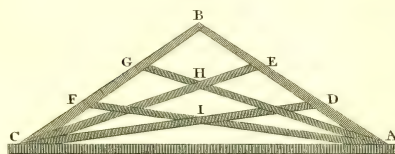


Fig. 6.

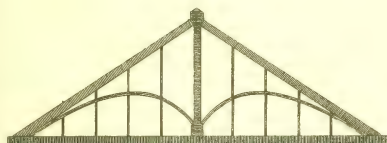


Fig. 5.

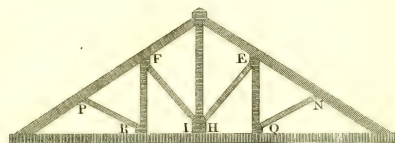


Fig. 8.

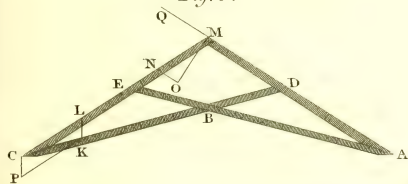


Fig. 7.

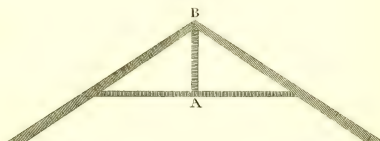
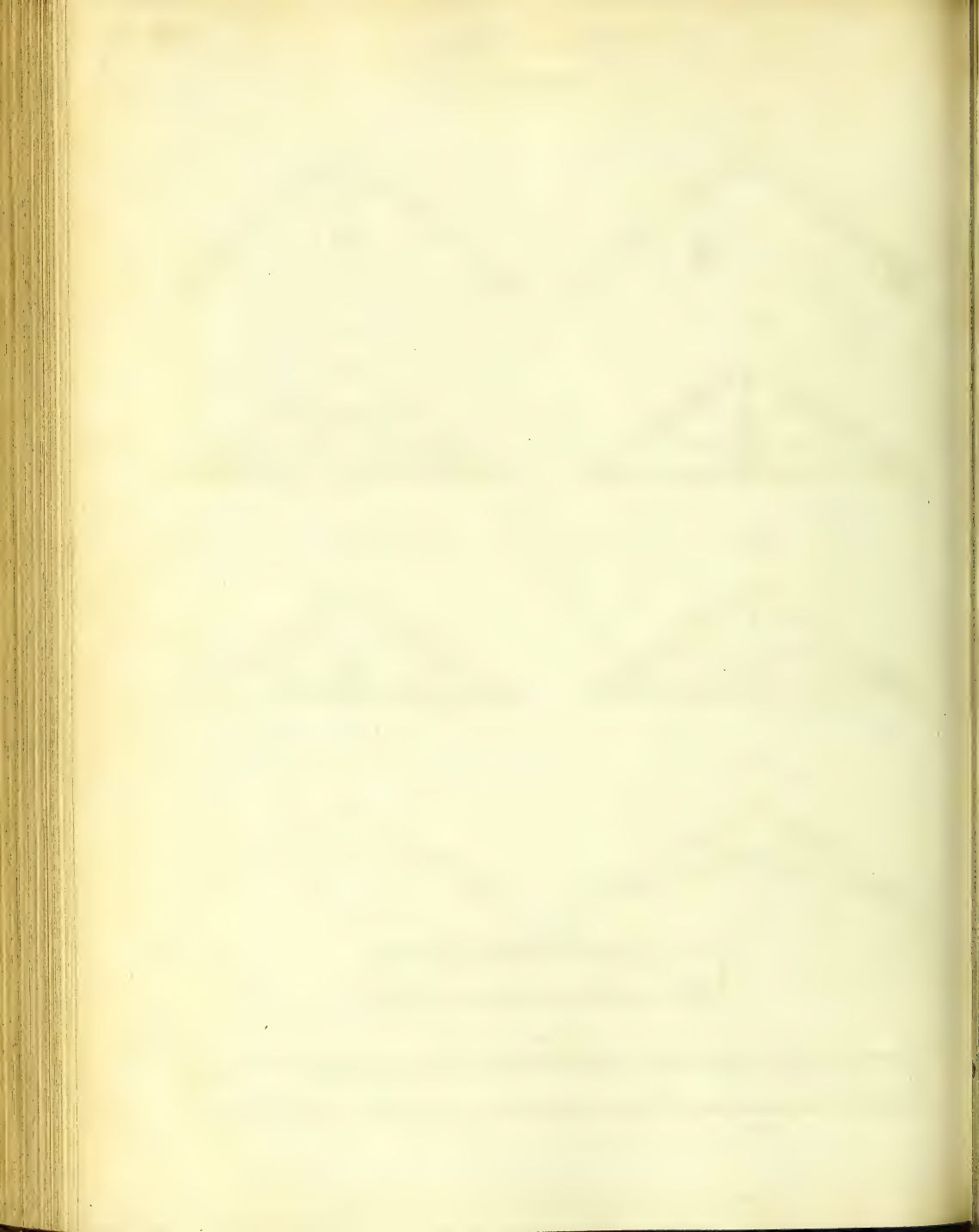


Fig. 9.

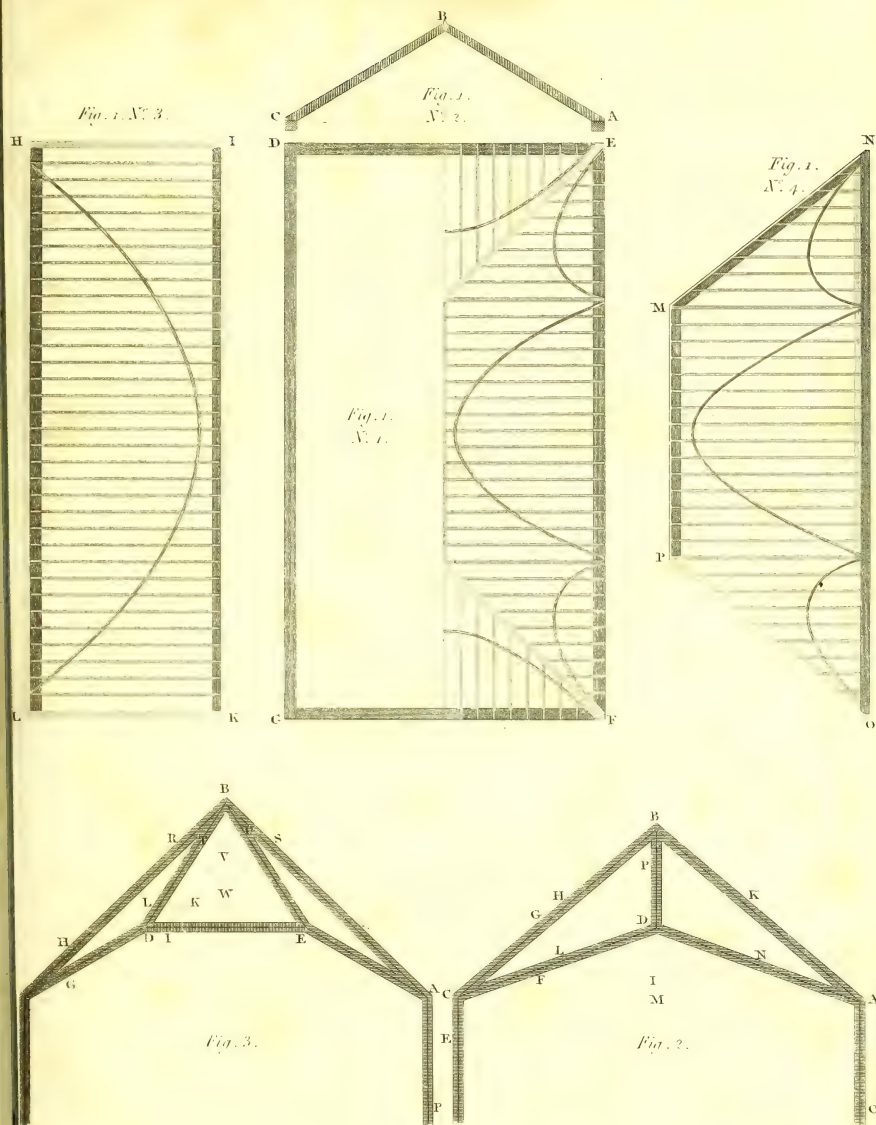


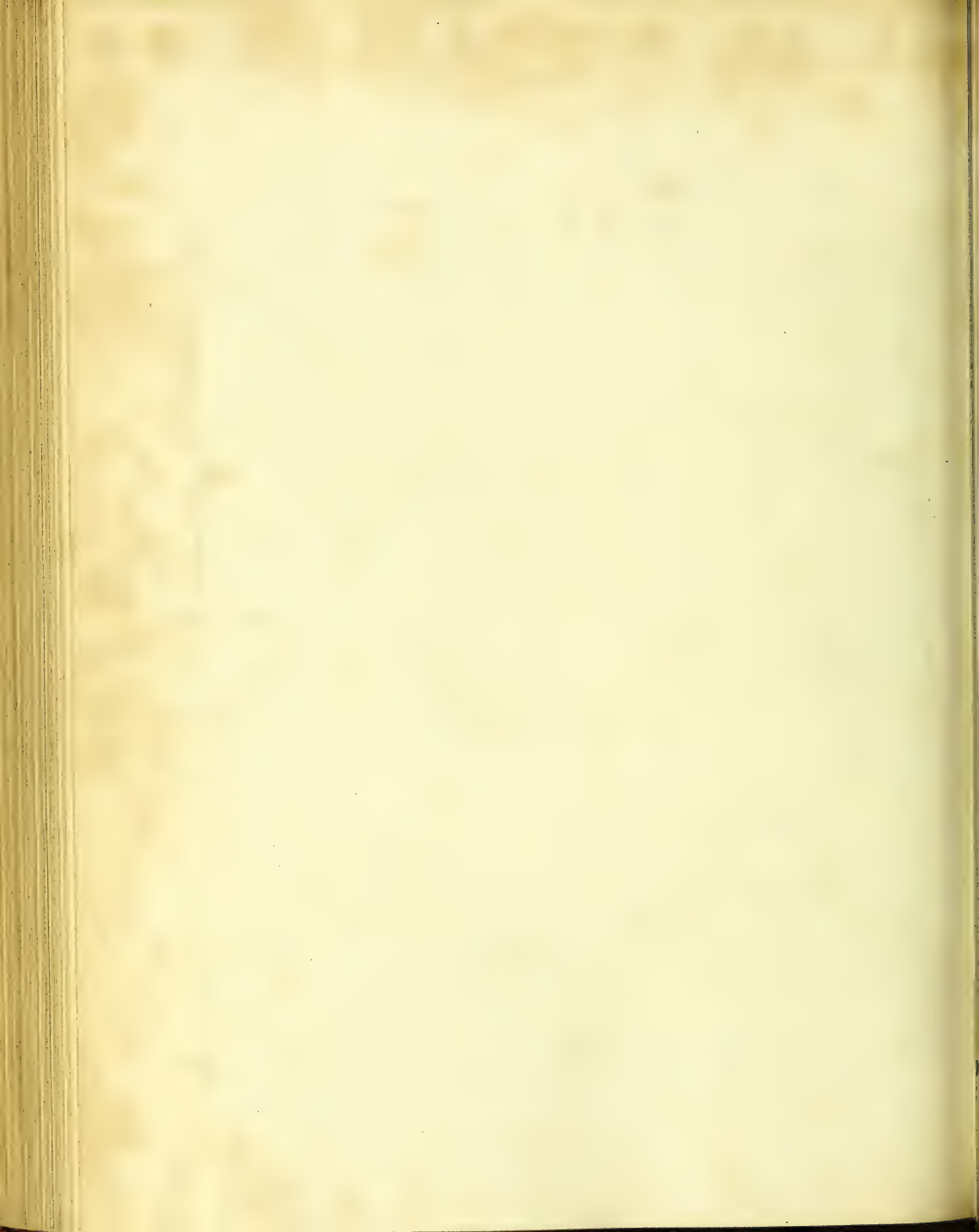
Fig. 10.



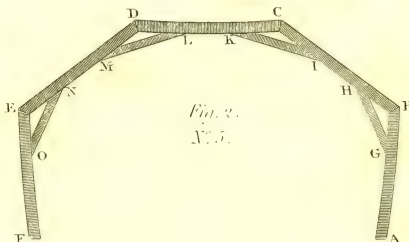
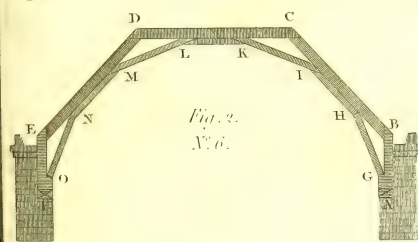
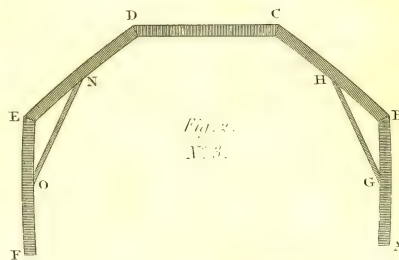
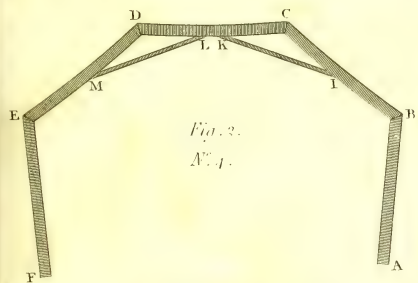
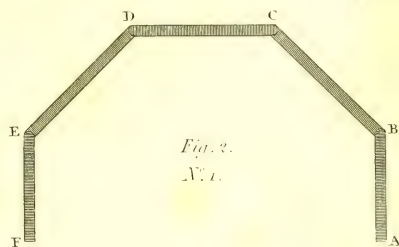
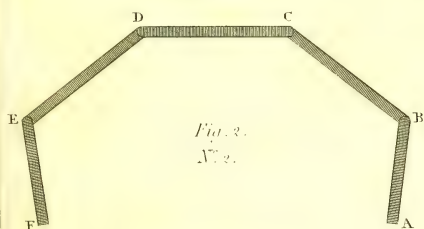
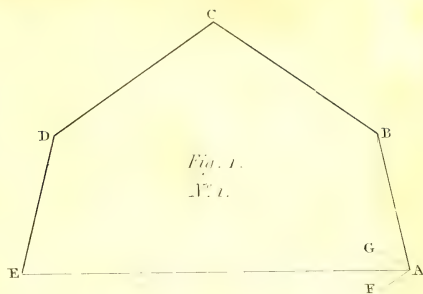
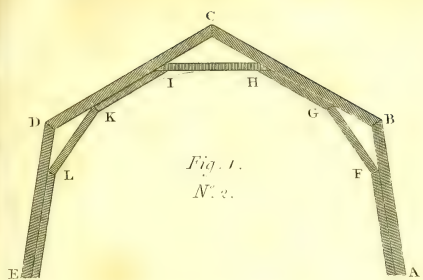


CARPENTRY.





ROOFS.





CARPENTRY.

Fig. 1.

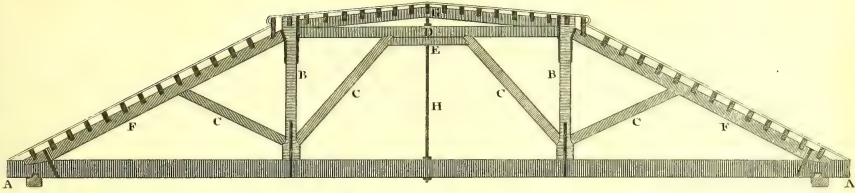


Fig. 2.

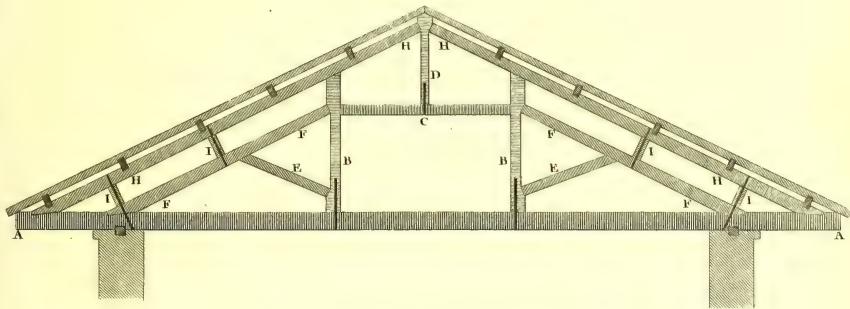
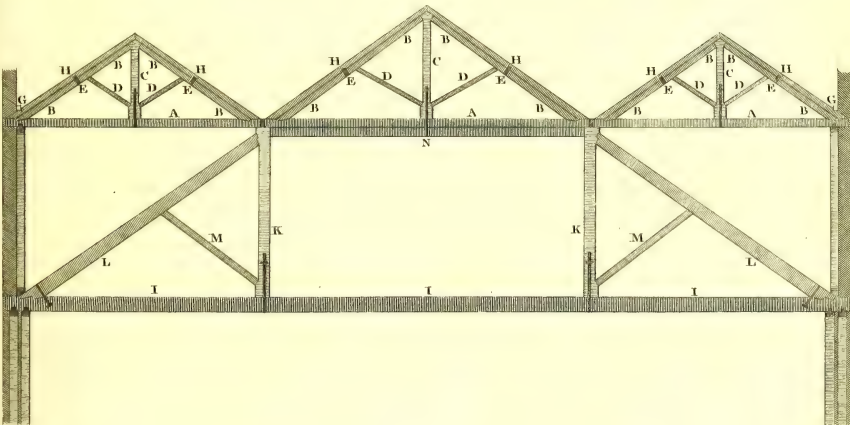
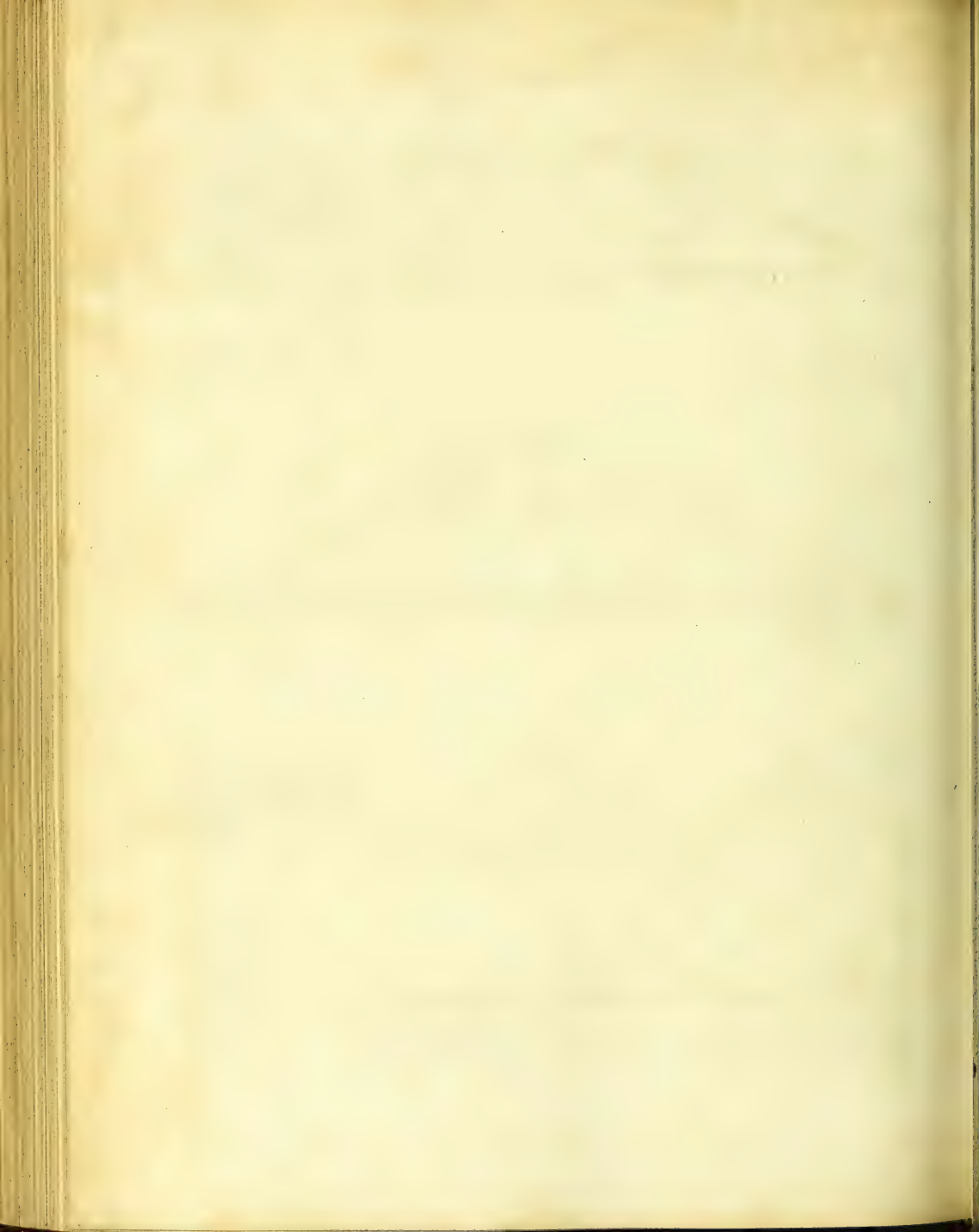


Fig. 3.





ROOFS.

Fig. 2.

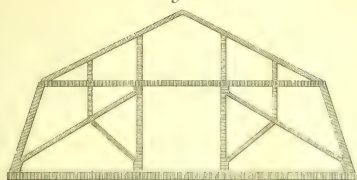


Fig. 1.

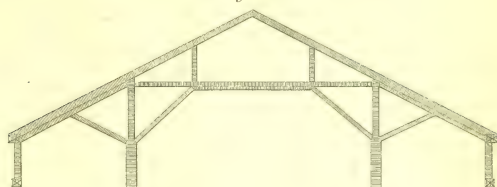


Fig. 3.

N^o 2.

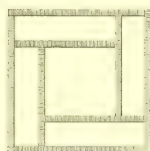


Fig. 4.

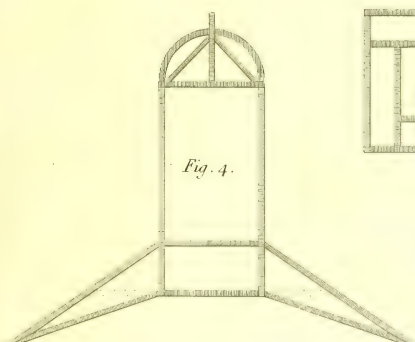


Fig. 3.

N^o 1.

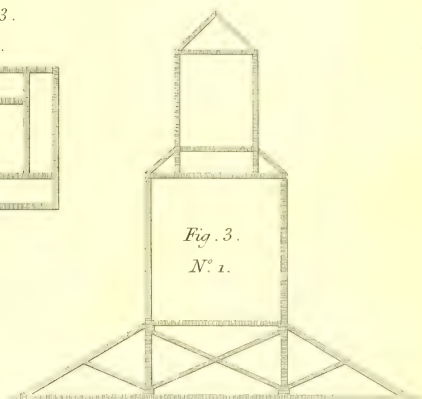


Fig. 5.

N^o 3.



Fig. 5.

N^o 4.

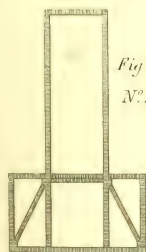


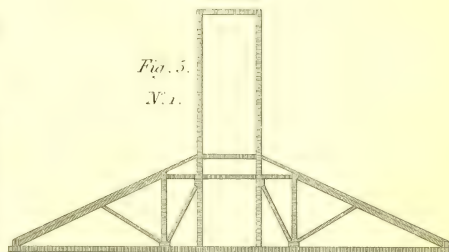
Fig. 5.

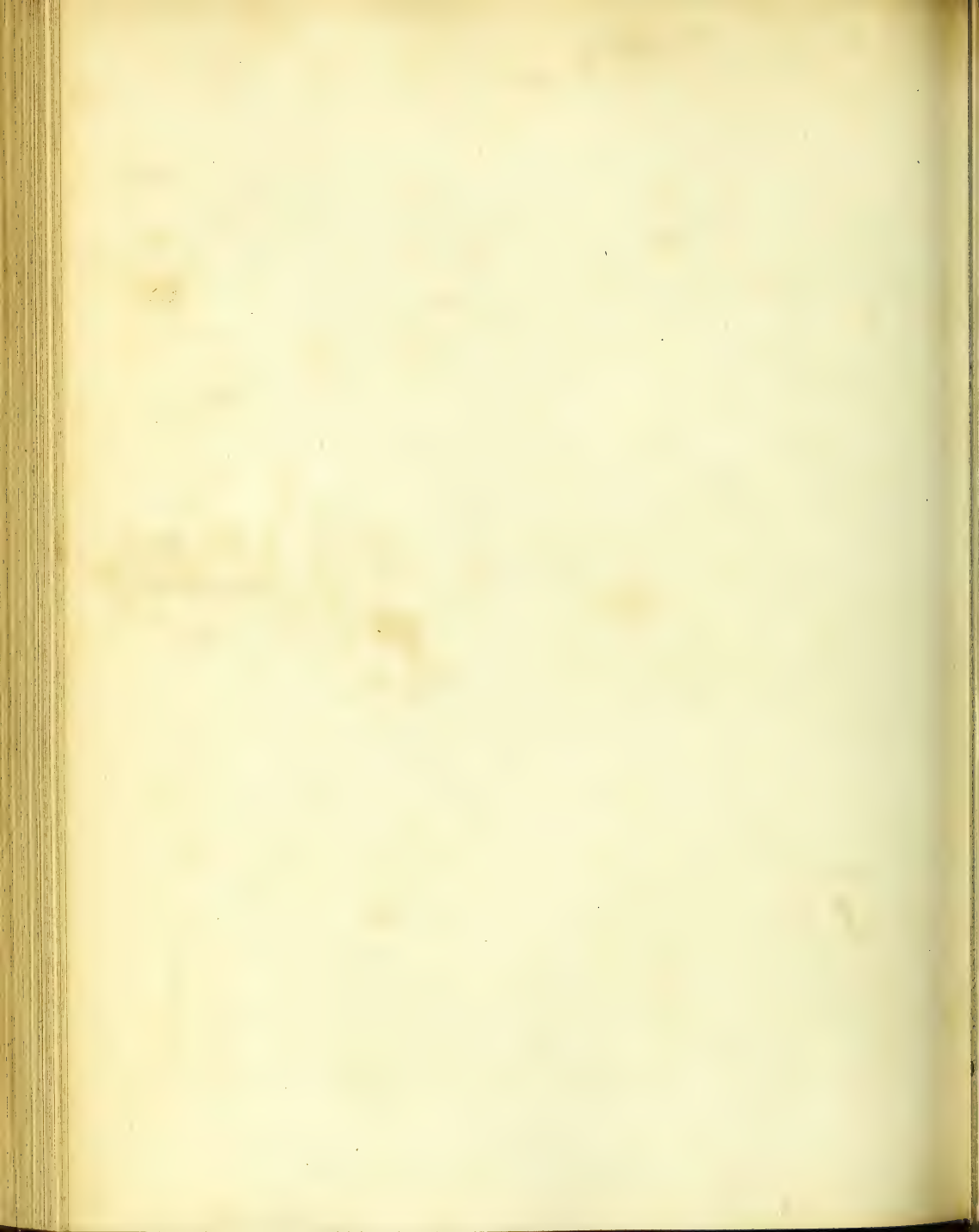
N^o 2.



Fig. 5.

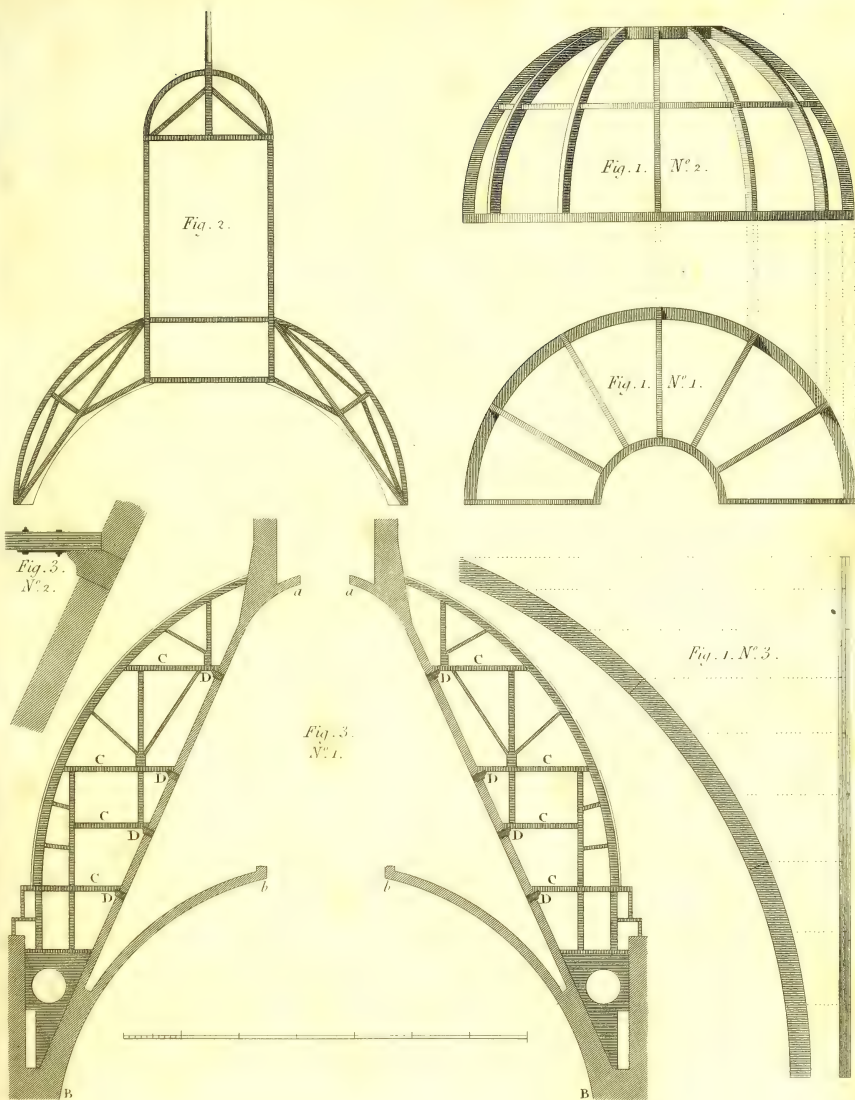
N^o 1.





CARPENTRY,

ROOFS.





CARPENTRY.

Fig. 1.

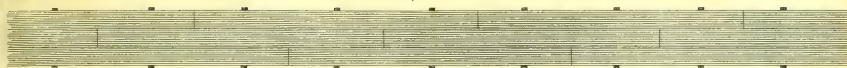


Fig. 3.

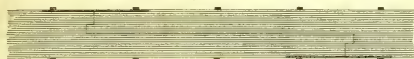


Fig. 2.

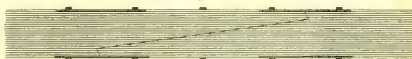


Fig. 5.

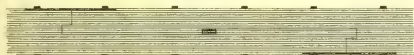


Fig. 4.

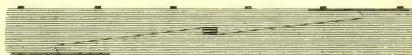


Fig. 6.

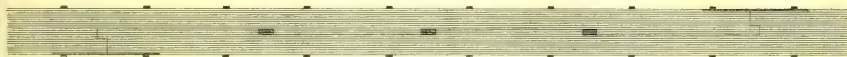


Fig. 7.

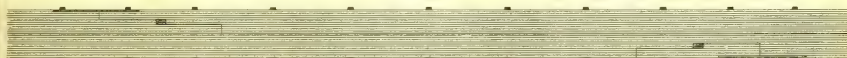


Fig. 8.



Fig. 9.
Nos. 3 & 4.



Fig. 9. N^o 1.



Fig. 9. N^o 2.

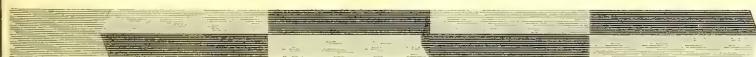
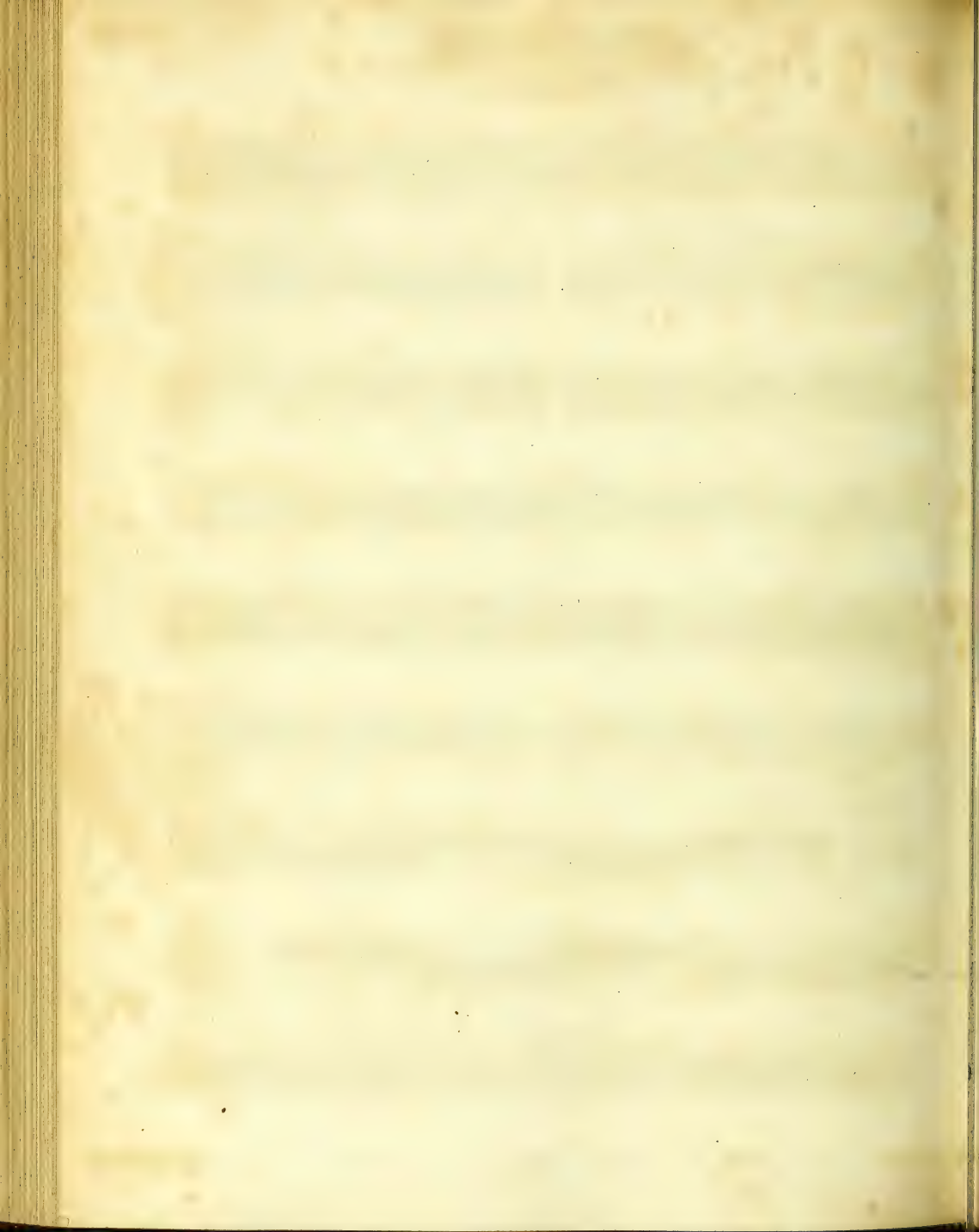


Fig. 9.
N^o 5.



Fig. 9. N^o 6.





CARPENTRY.

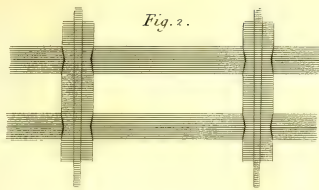


Fig. 2.

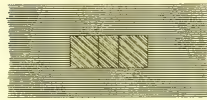


Fig. 1. N° 2.

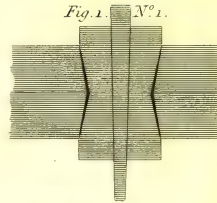


Fig. 1. N° 1.



Fig. 4. N° 2.

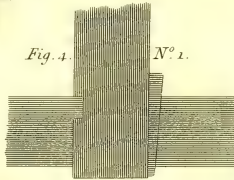


Fig. 4. N° 1.

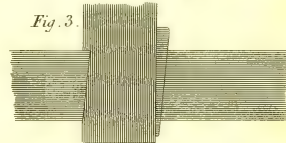


Fig. 3.

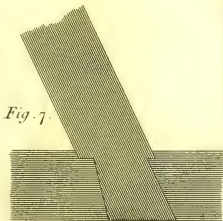


Fig. 7.



Fig. 6. N° 2.

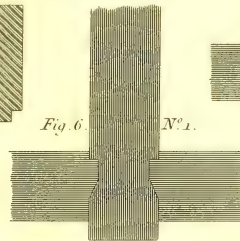


Fig. 6. N° 1.

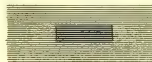


Fig. 5. N° 1.



Fig. 5. N° 2.



Fig. 8. N° 1.

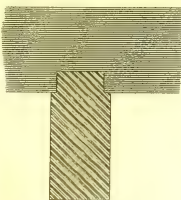


Fig. 10. N° 1.

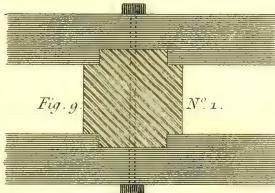


Fig. 9. N° 1.

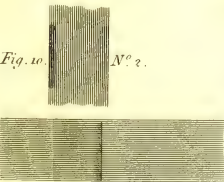


Fig. 10. N° 2.

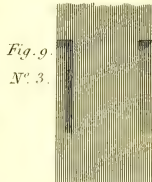


Fig. 9. N° 3.

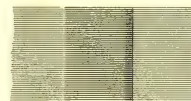


Fig. 9. N° 2.

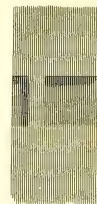
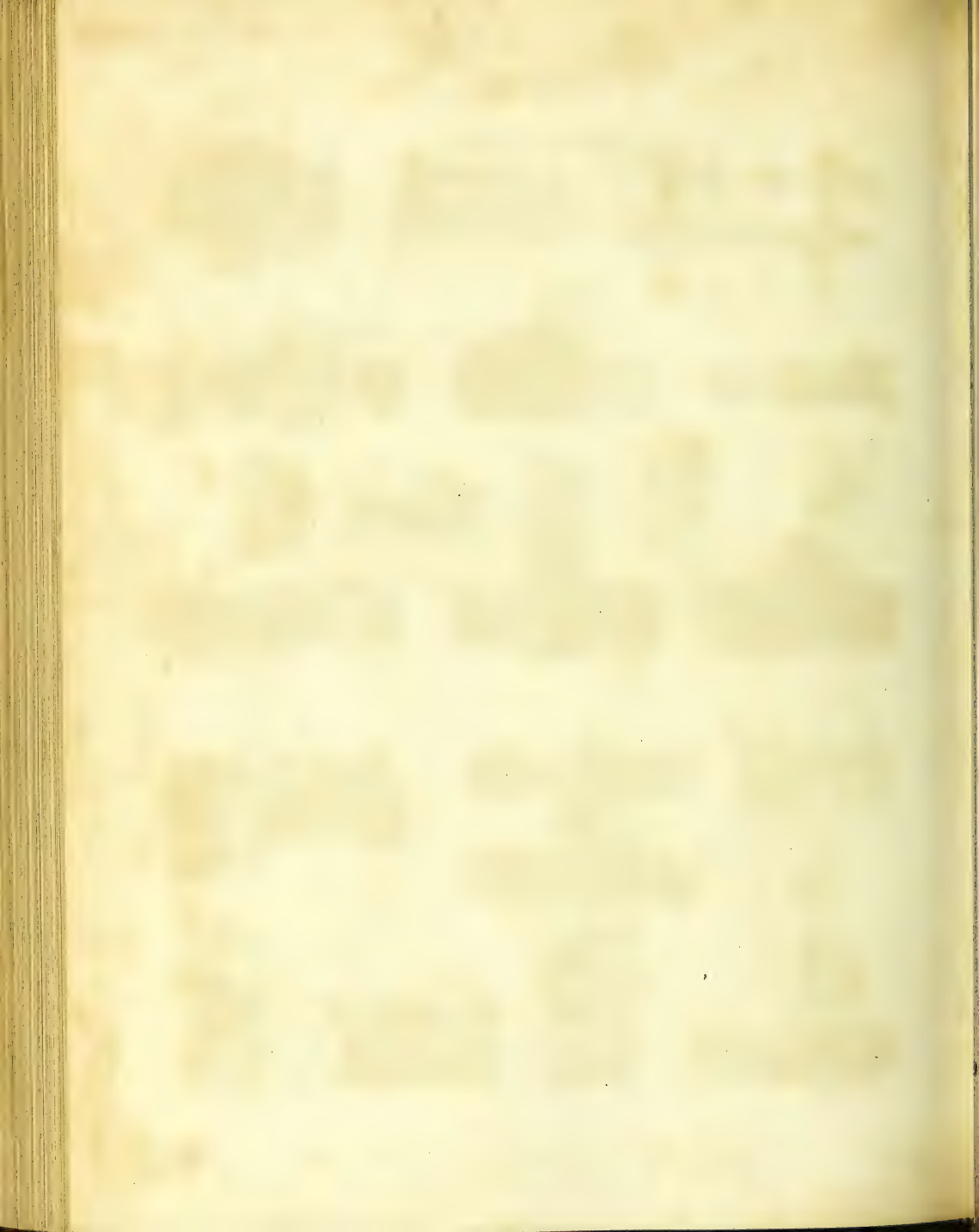


Fig. 8. N° 2.



CARPENTRY.

Fig. 2.

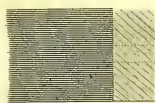


Fig. 2, N^o 1.

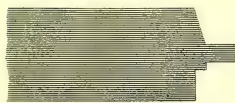


Fig. 2, N^o 4.

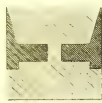


Fig. 2, N^o 3.

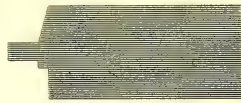


Fig. 3.

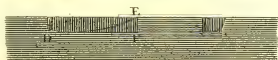
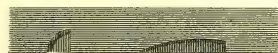


Fig. 4.

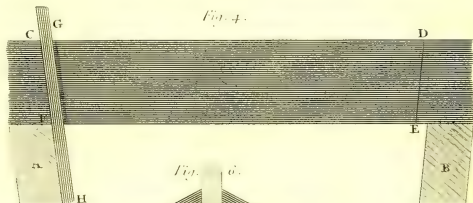


Fig. 5.

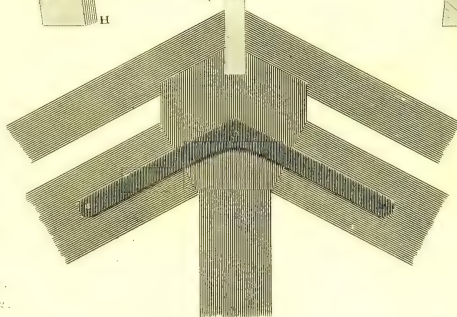


Fig. 6.

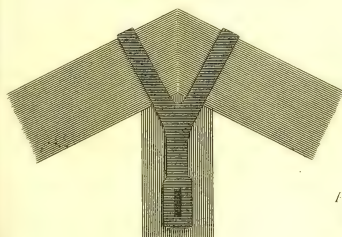


Fig. 7.
N^o 2.

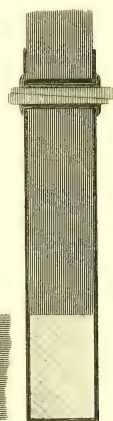


Fig. 7.
N^o 1.

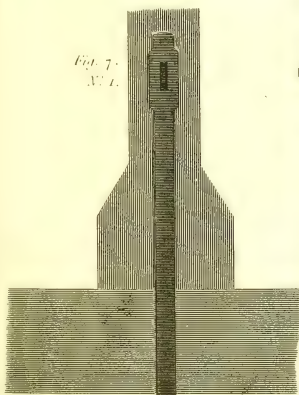


Fig. 8.
N^o 1.

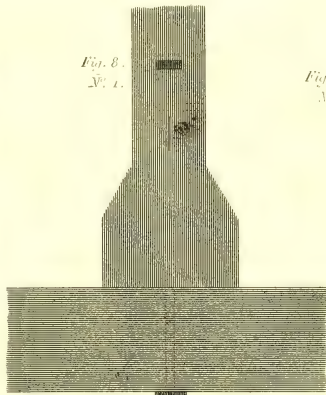
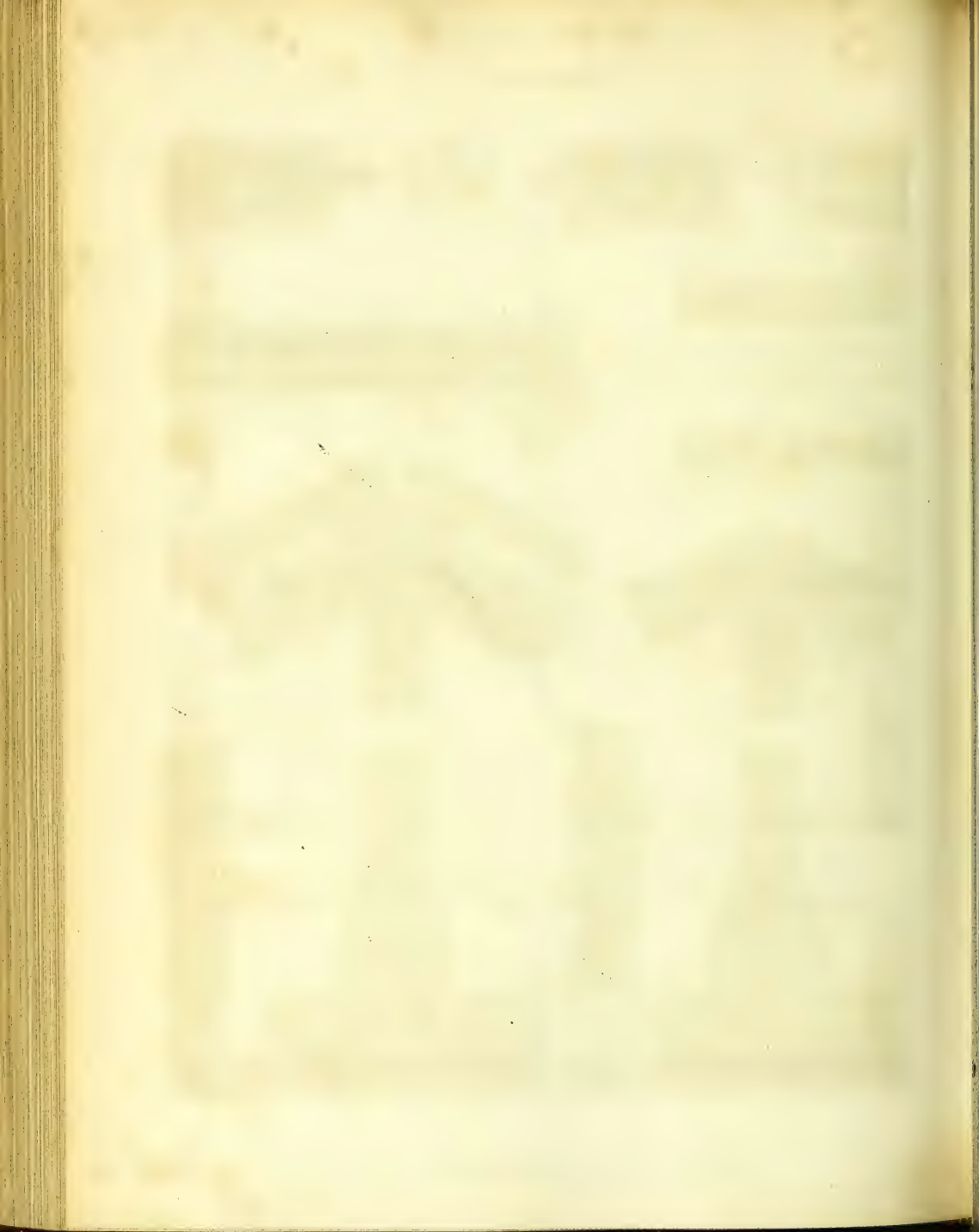


Fig. 8.
N^o 2.





CARPENTRY.

Fig. 4. N° 1.

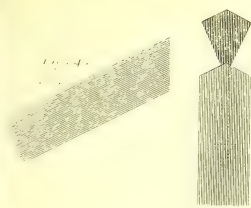


Fig. 4. N° 2.

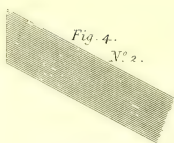


Fig. 4. N° 4.



Fig. 2.

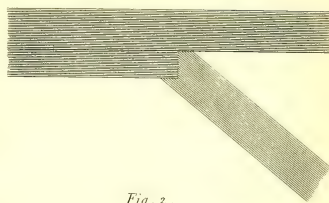


Fig. 2.

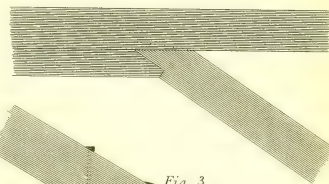


Fig. 3.

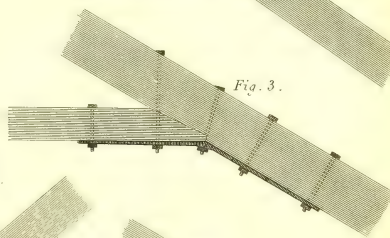


Fig. 7.

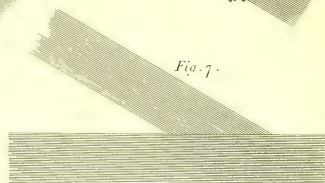


Fig. 5.

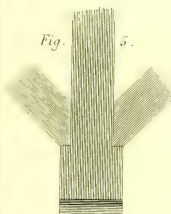


Fig. 6.

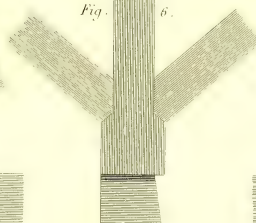


Fig. 8.

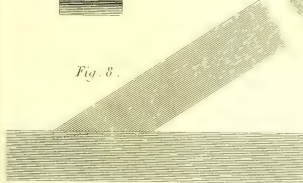


Fig. 9. N° 2.



Fig. 9. N° 1.

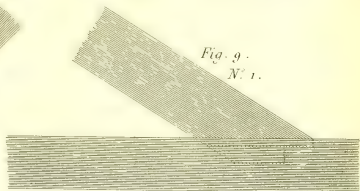


Fig. 10. N° 2.

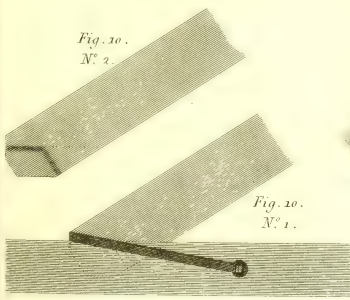
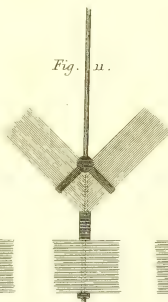
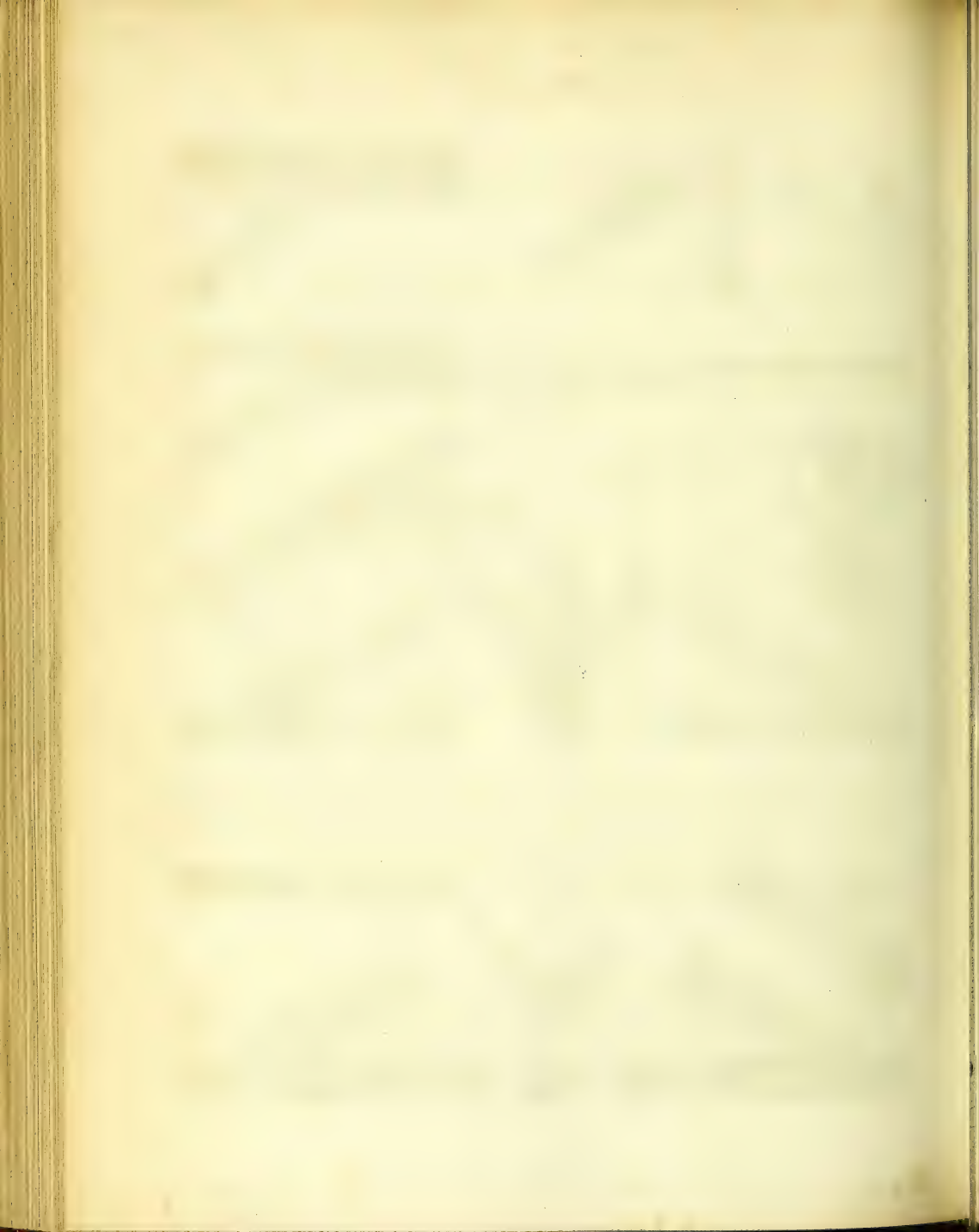


Fig. 10. N° 1.

Fig. 11.





CARPENTRY.

Fig. 1.



Fig. 2. N° 1.

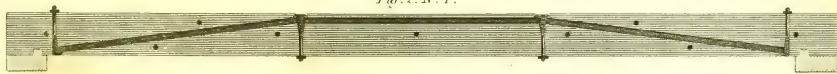


Fig. 2. N° 2.

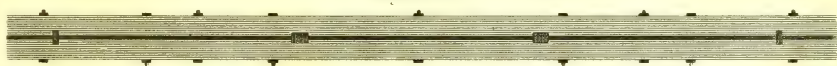


Fig. 2. N° 7.



Fig. 2. N° 6.



Fig. 2. N° 5.



Fig. 2. N° 4.



Fig. 2. N° 3.

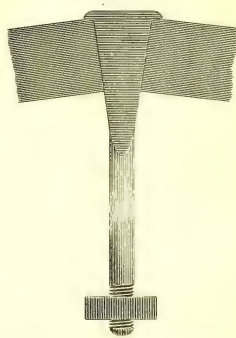


Fig. 3. N° 1.



Fig. 3. N° 2.

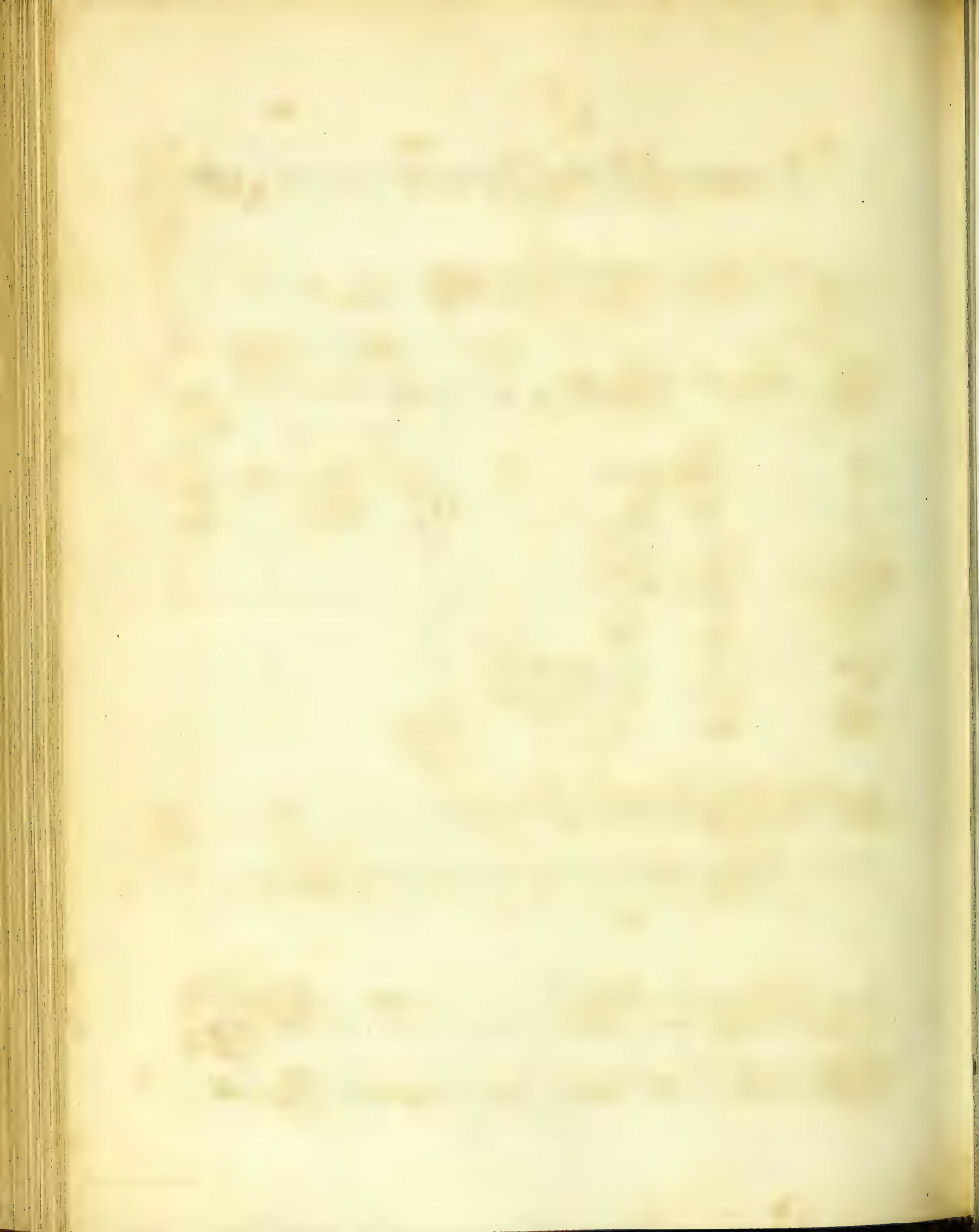


Fig. 4. N° 1.

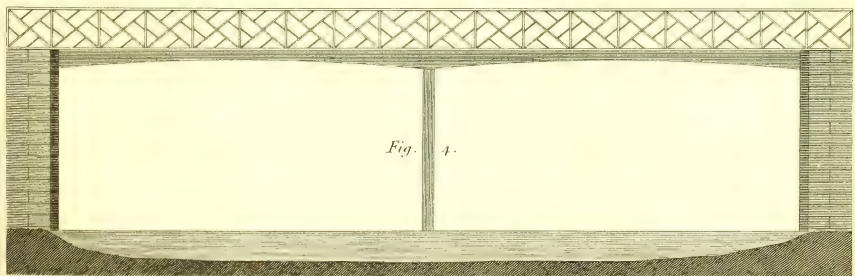
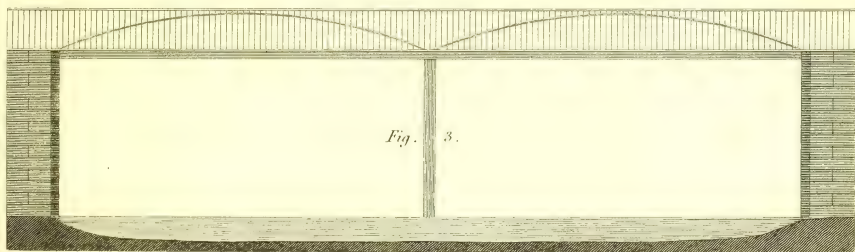
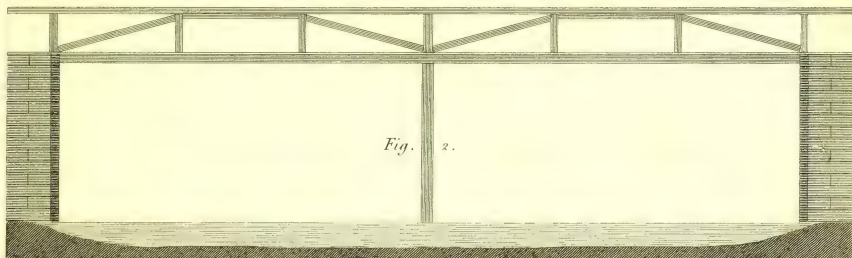
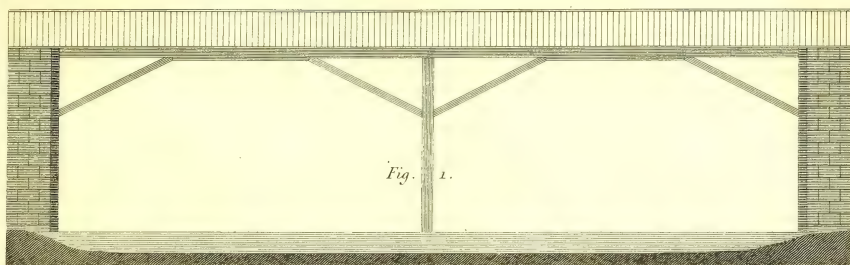


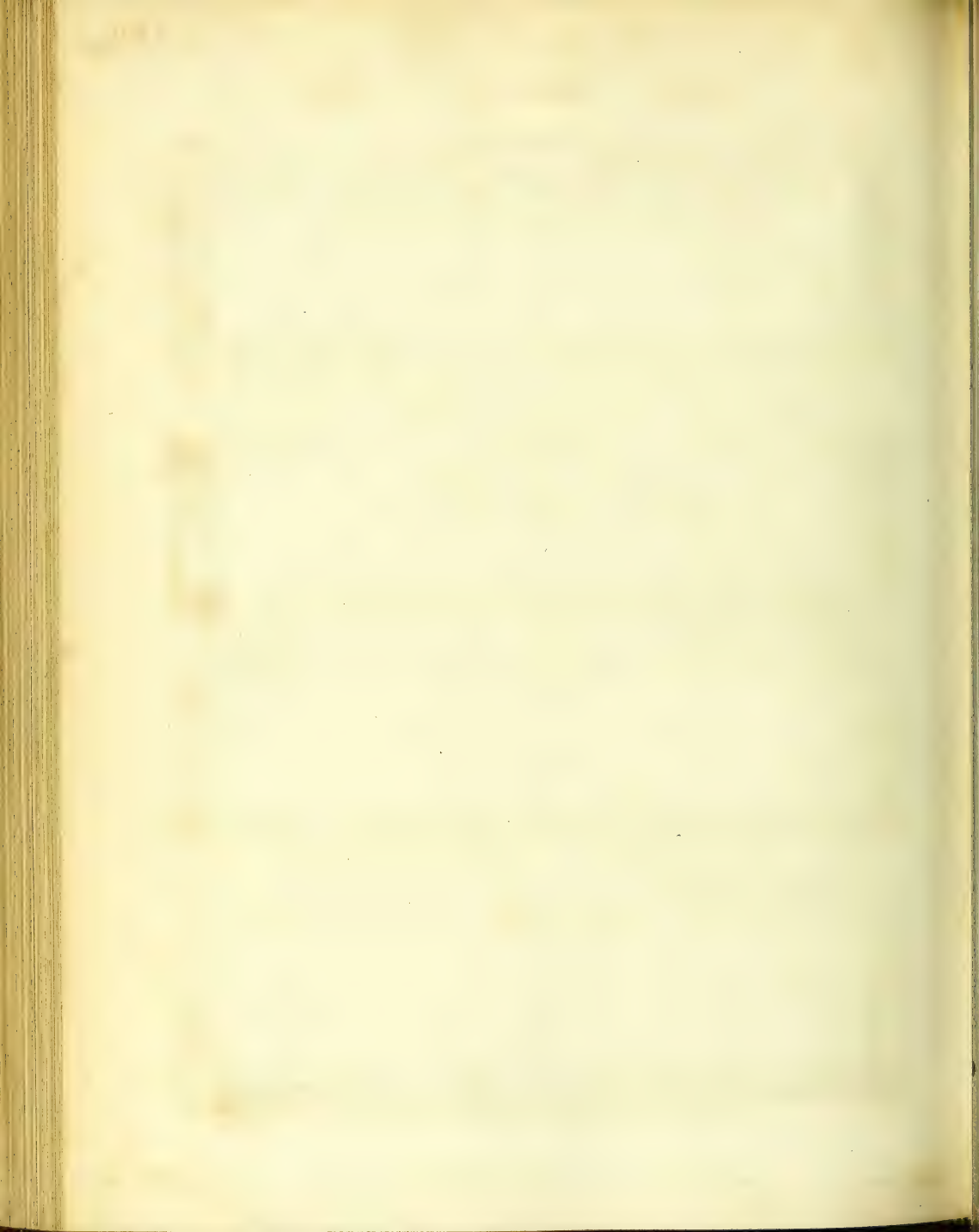
Fig. 4. N° 2.





BRIDGES.





CENTRES.

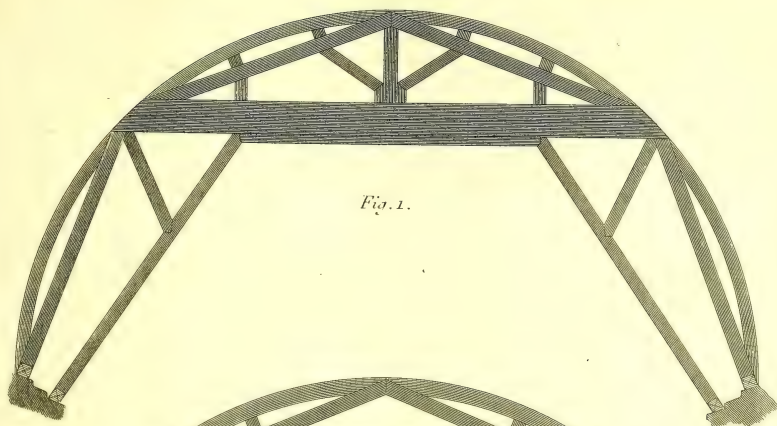


Fig. 1.

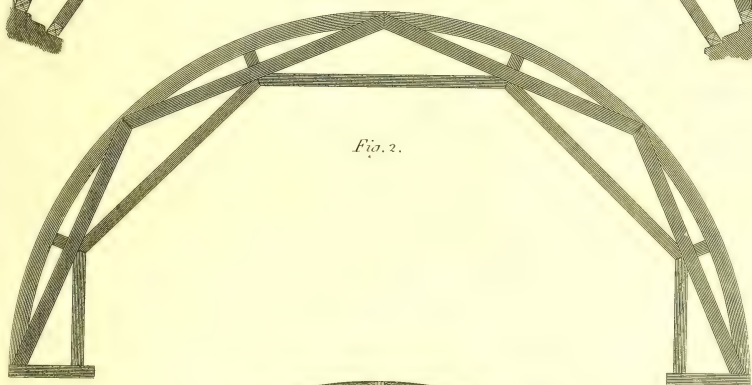


Fig. 2.

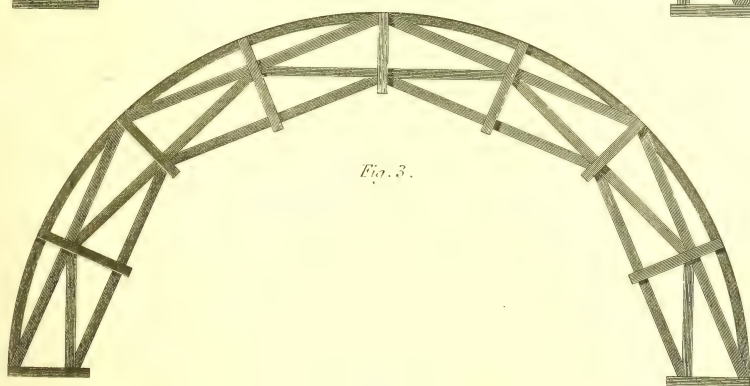
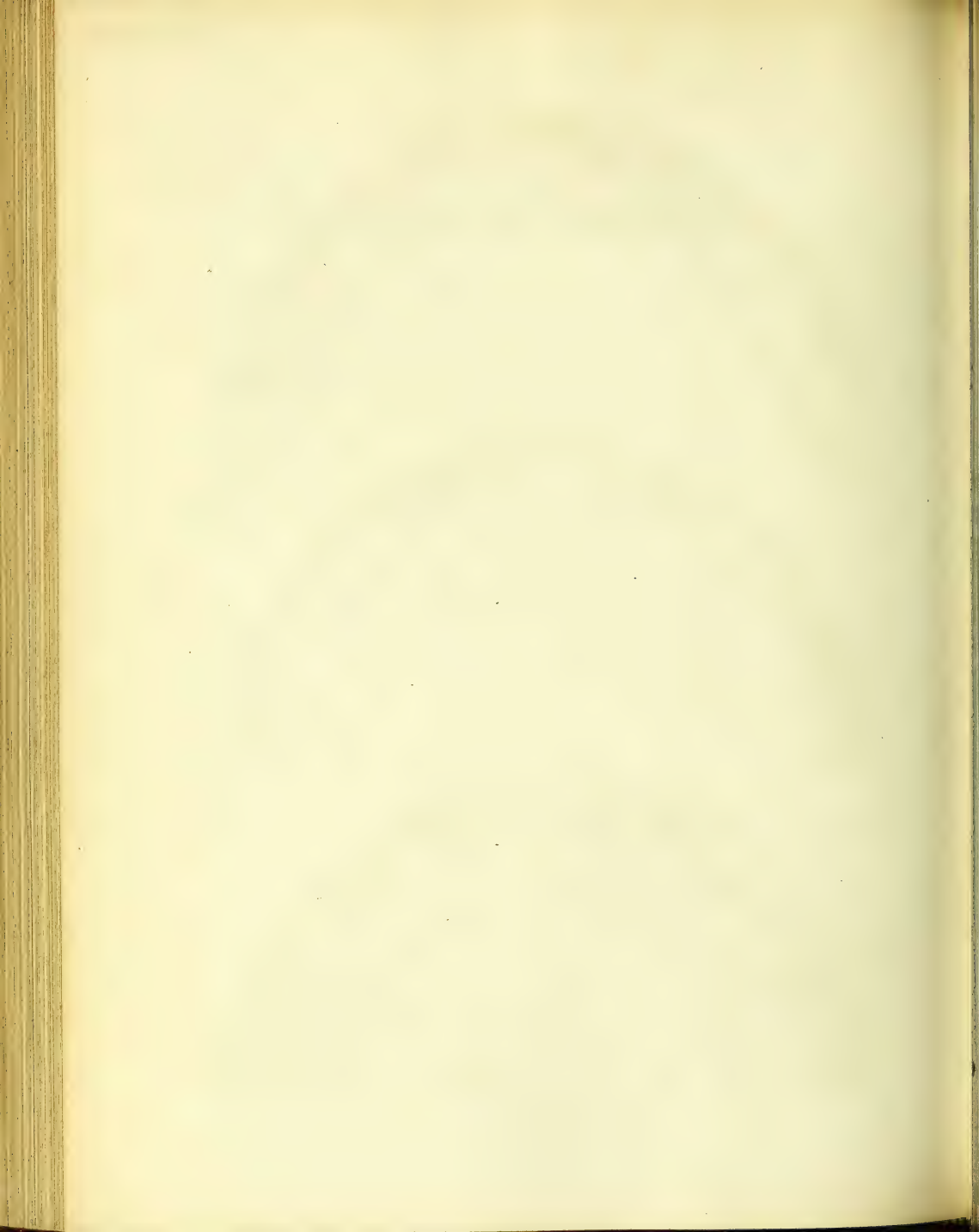


Fig. 3.



CENTRES.

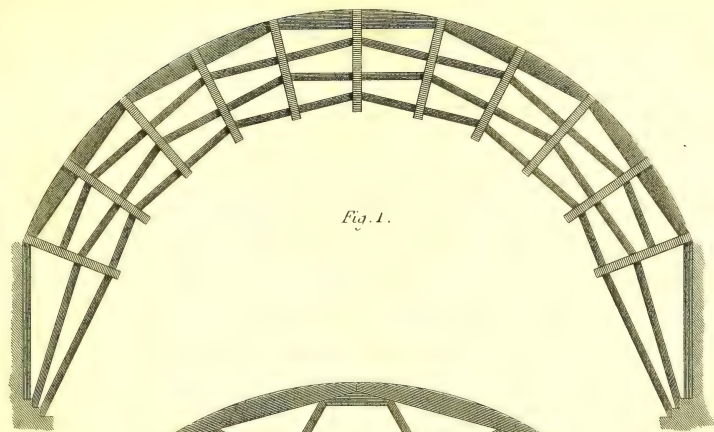


Fig. 1.

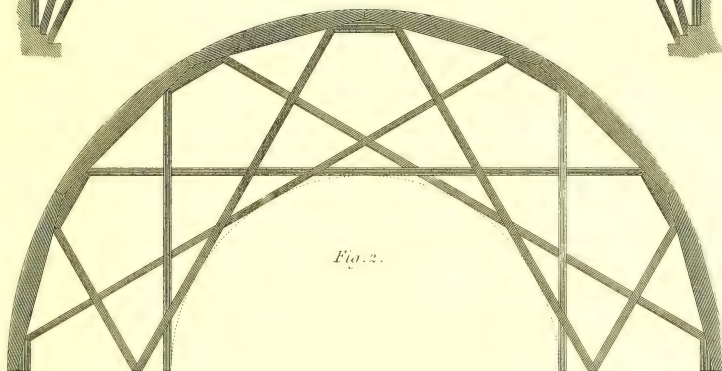


Fig. 2.

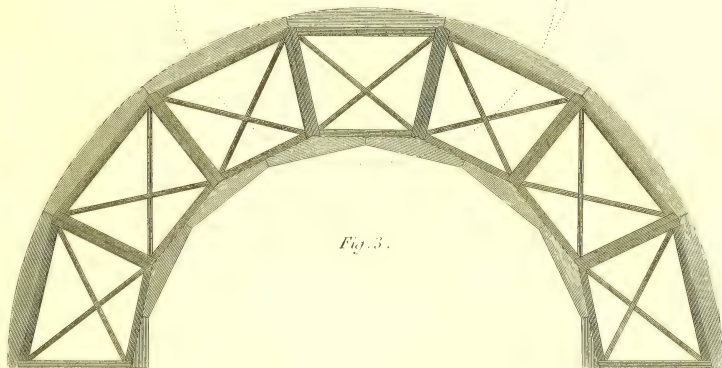
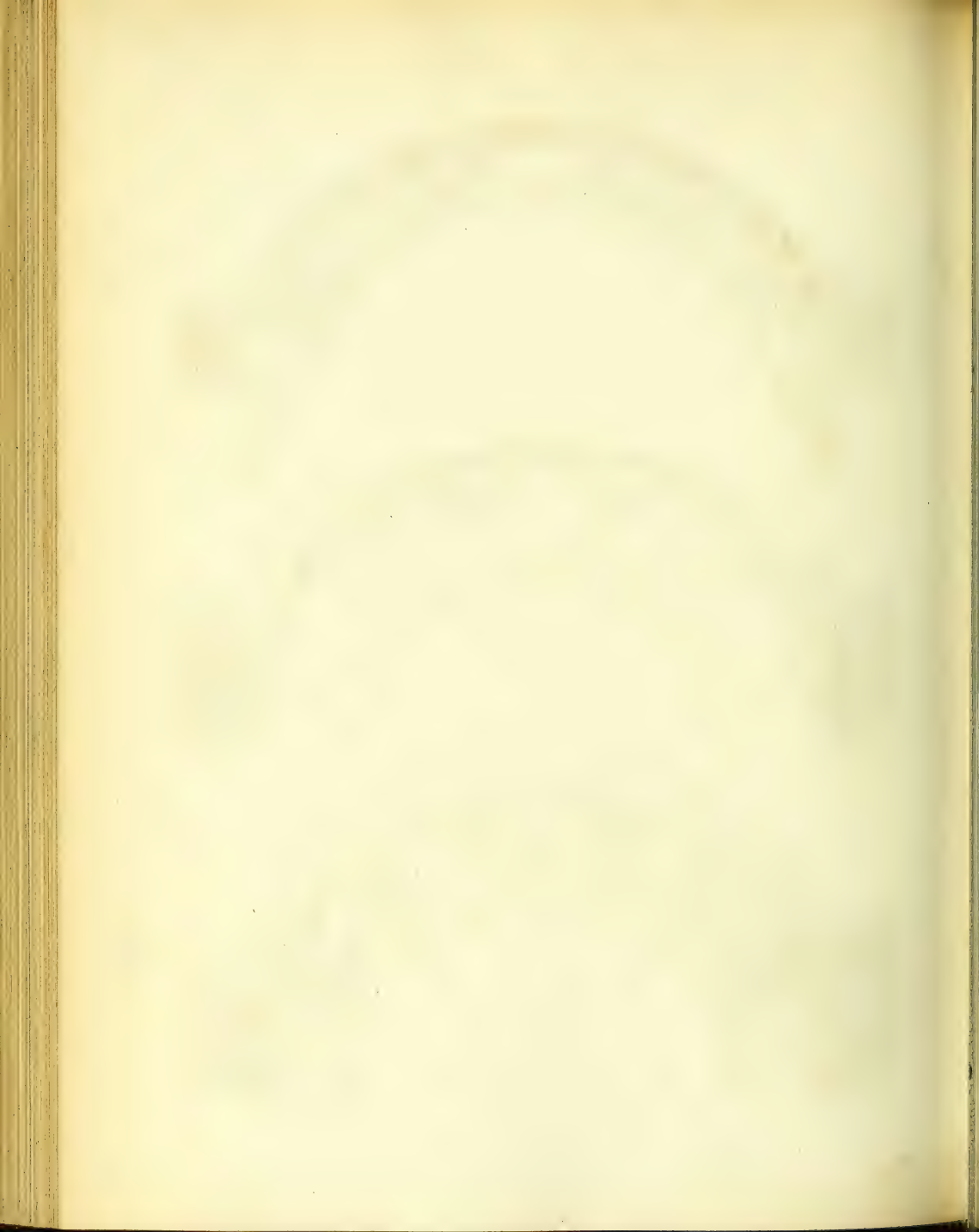


Fig. 3.



CENTRES.

Fig. 1.

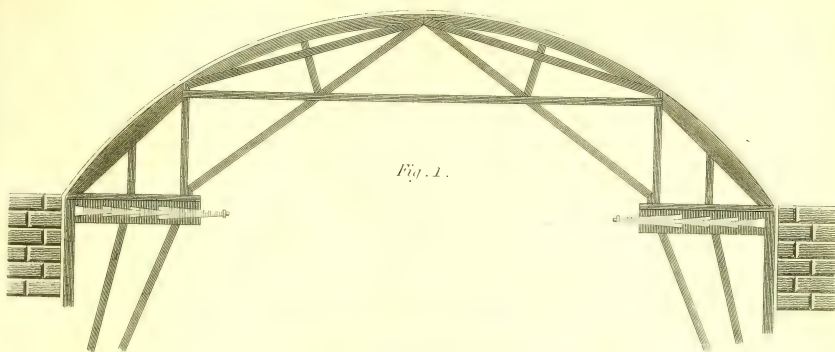


Fig. 2.

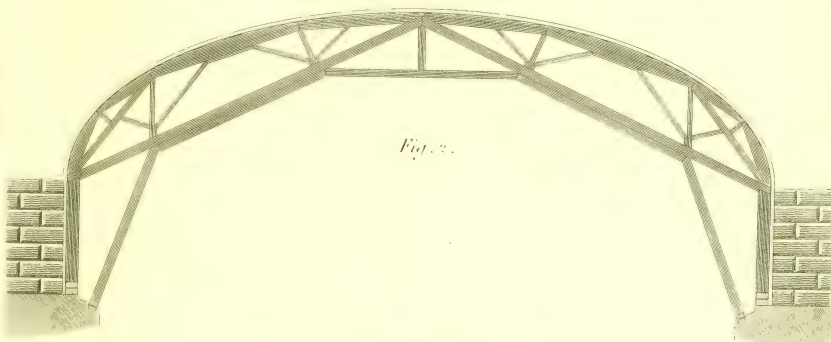
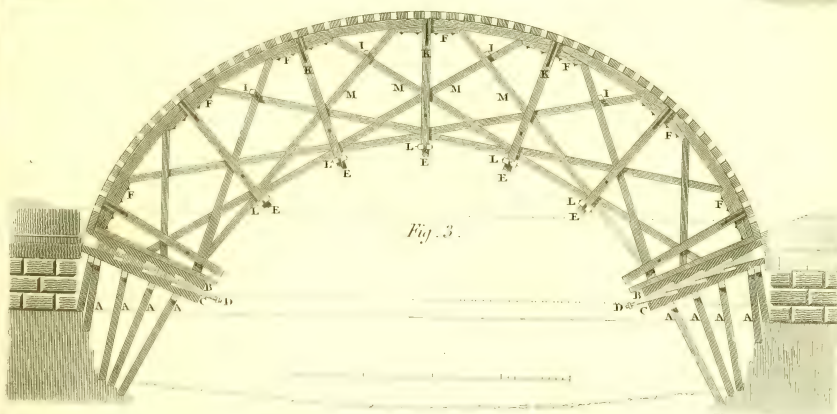
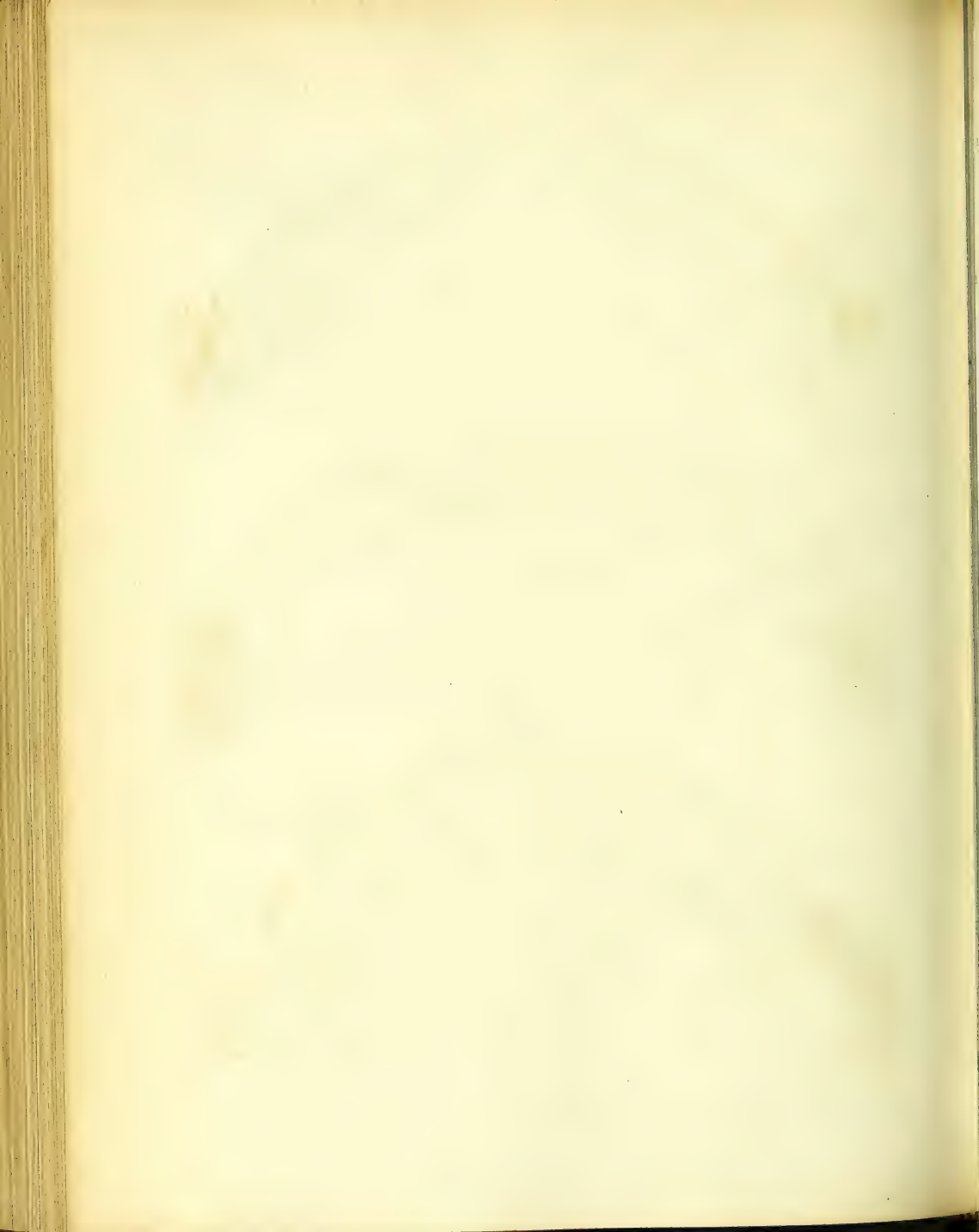


Fig. 3.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

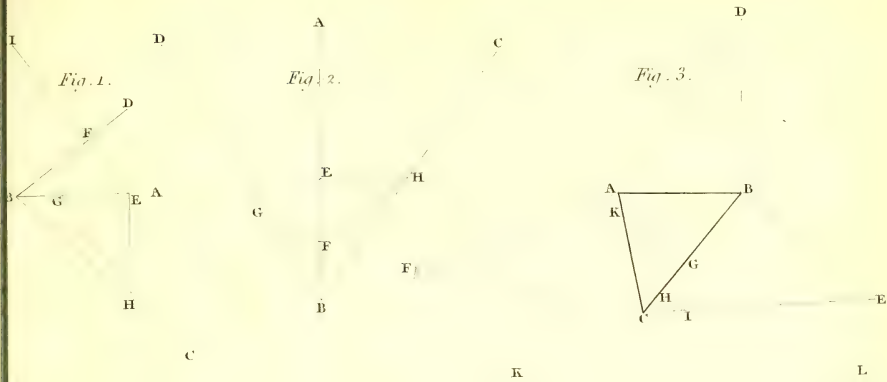


Fig. 4.
N. 1.

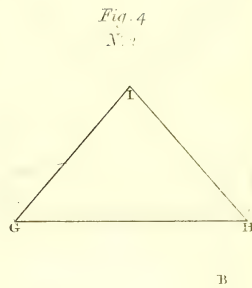


Fig. 5.

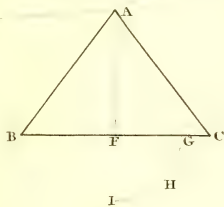
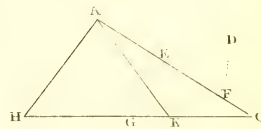
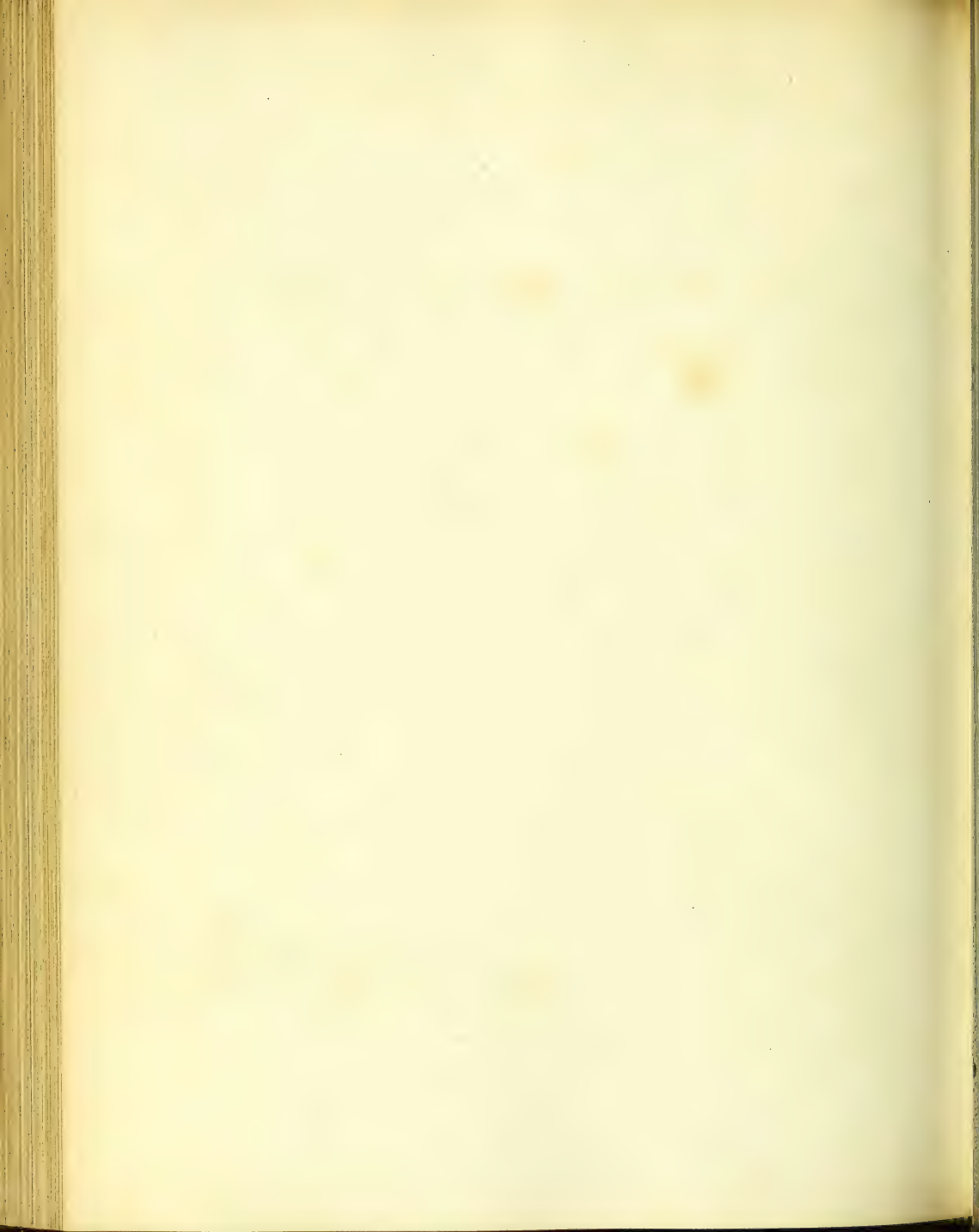
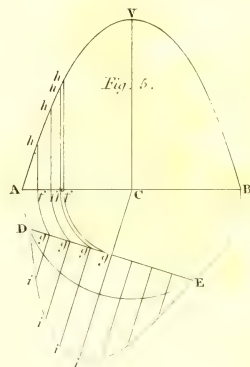
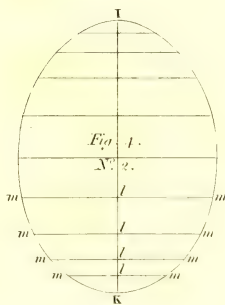
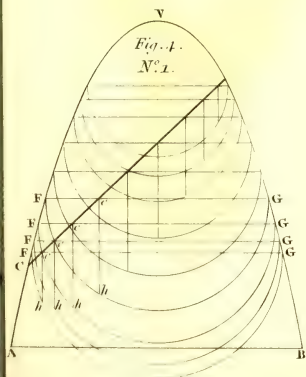
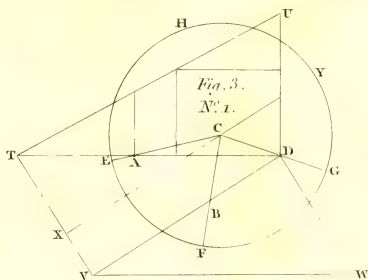
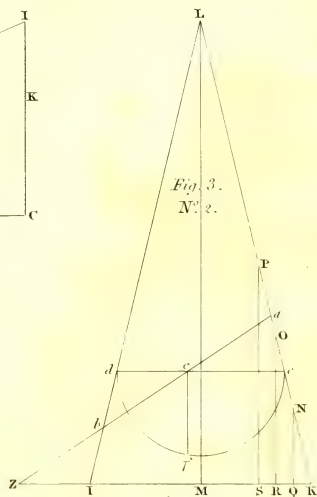
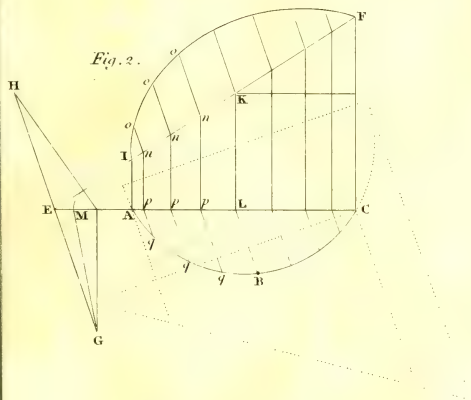
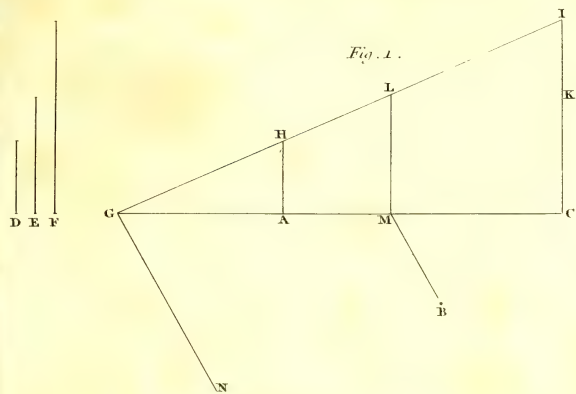


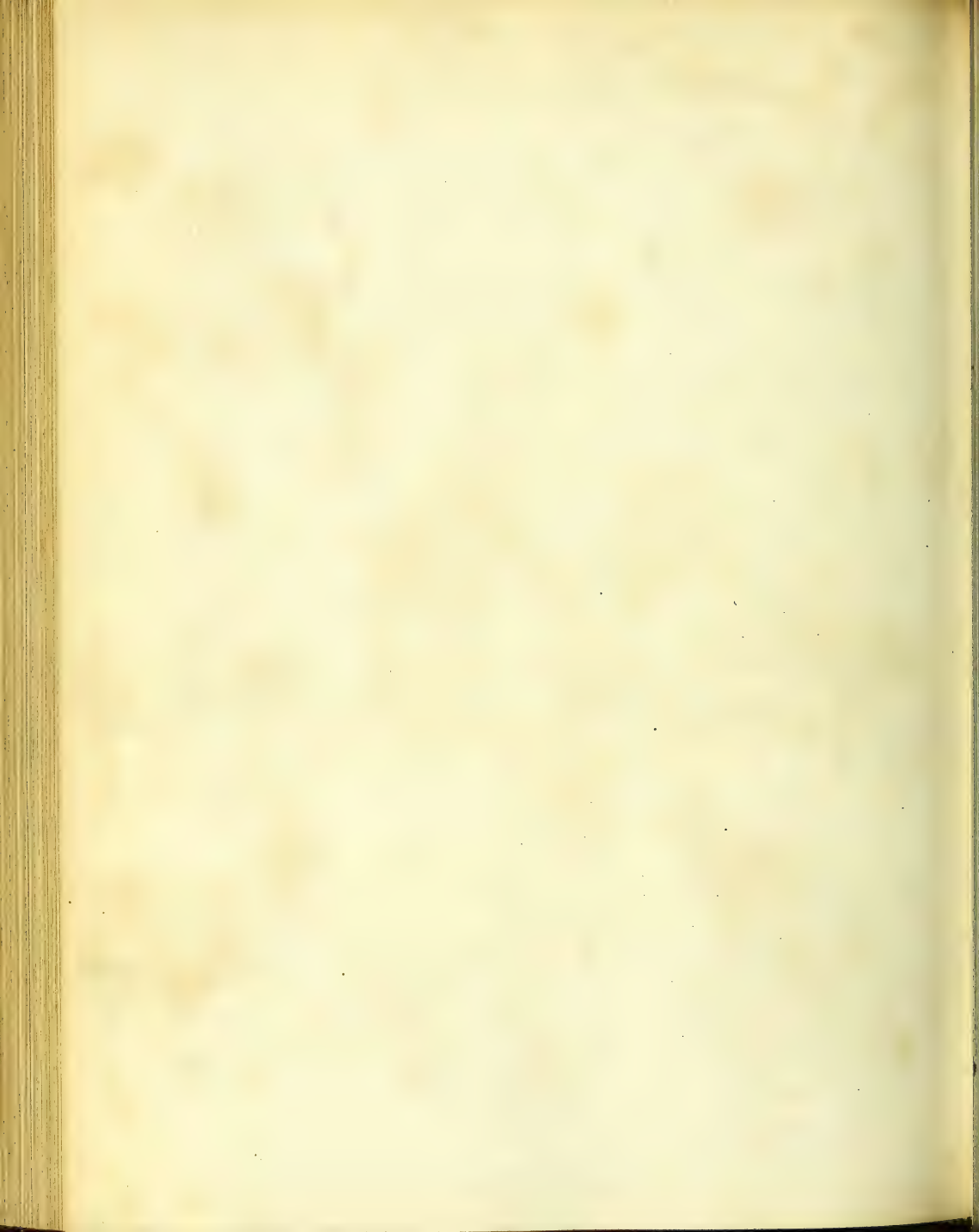
Fig. 6.





GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 3. N° 2.

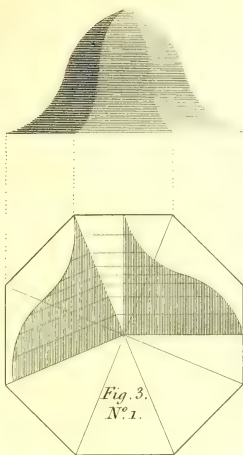


Fig. 2. N^o 2.

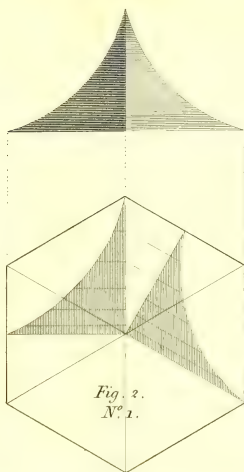


Fig. 1. N^o 2.

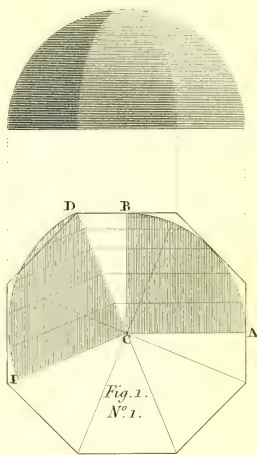


Fig. 5.

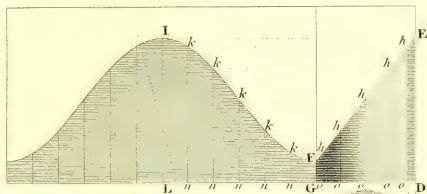


Fig. 4. N^o 1.

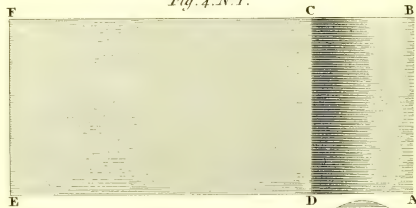


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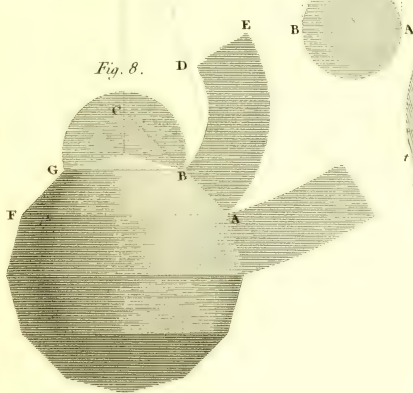


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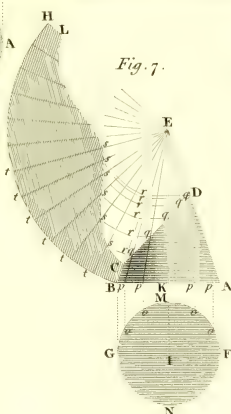
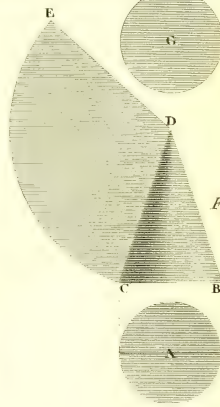
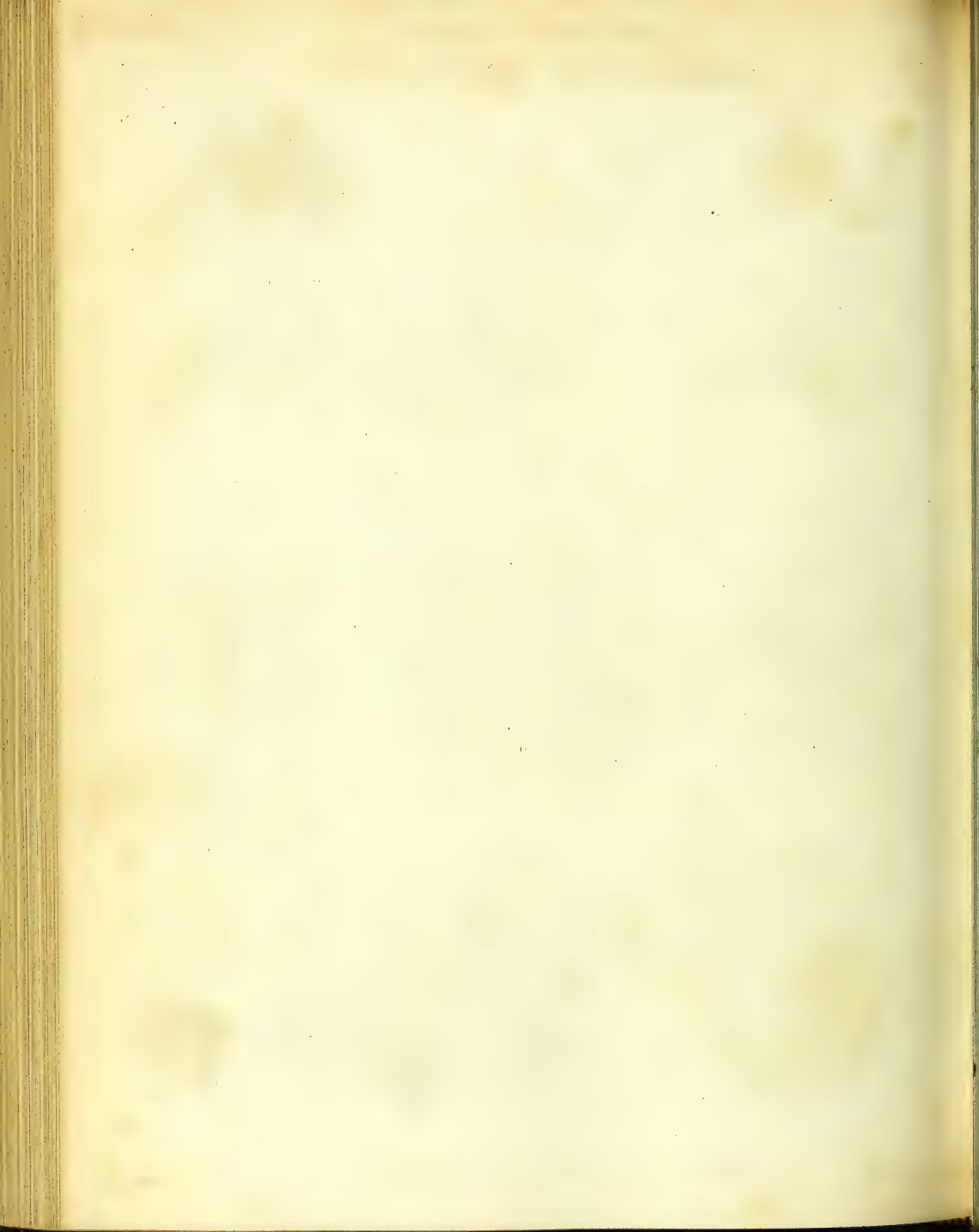
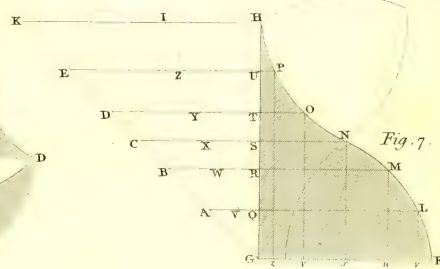
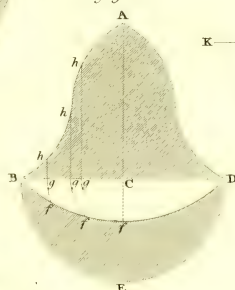
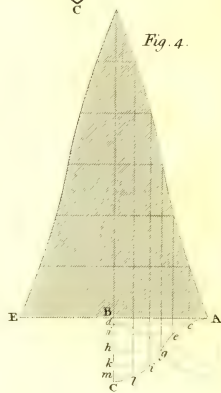
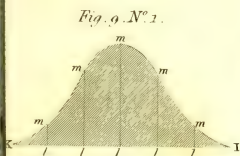
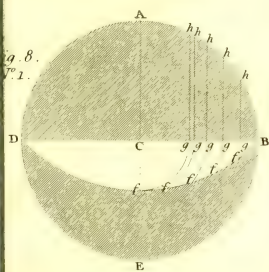
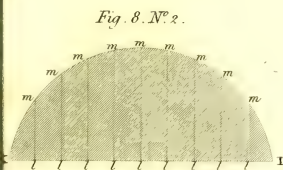
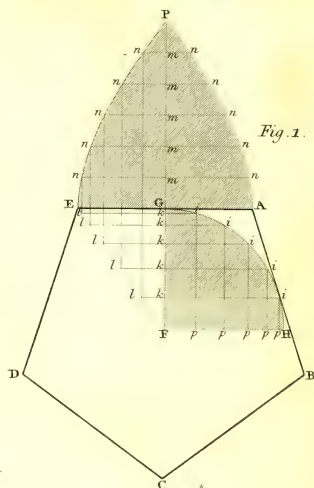
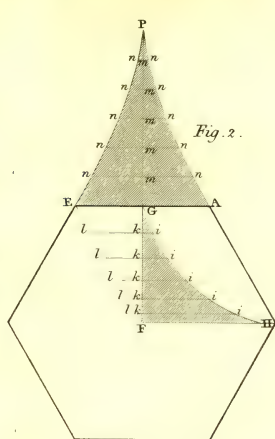
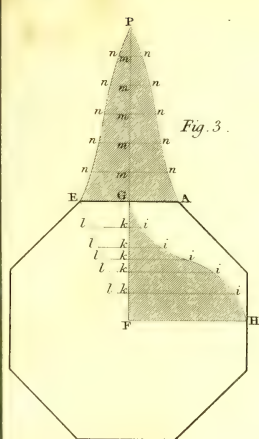


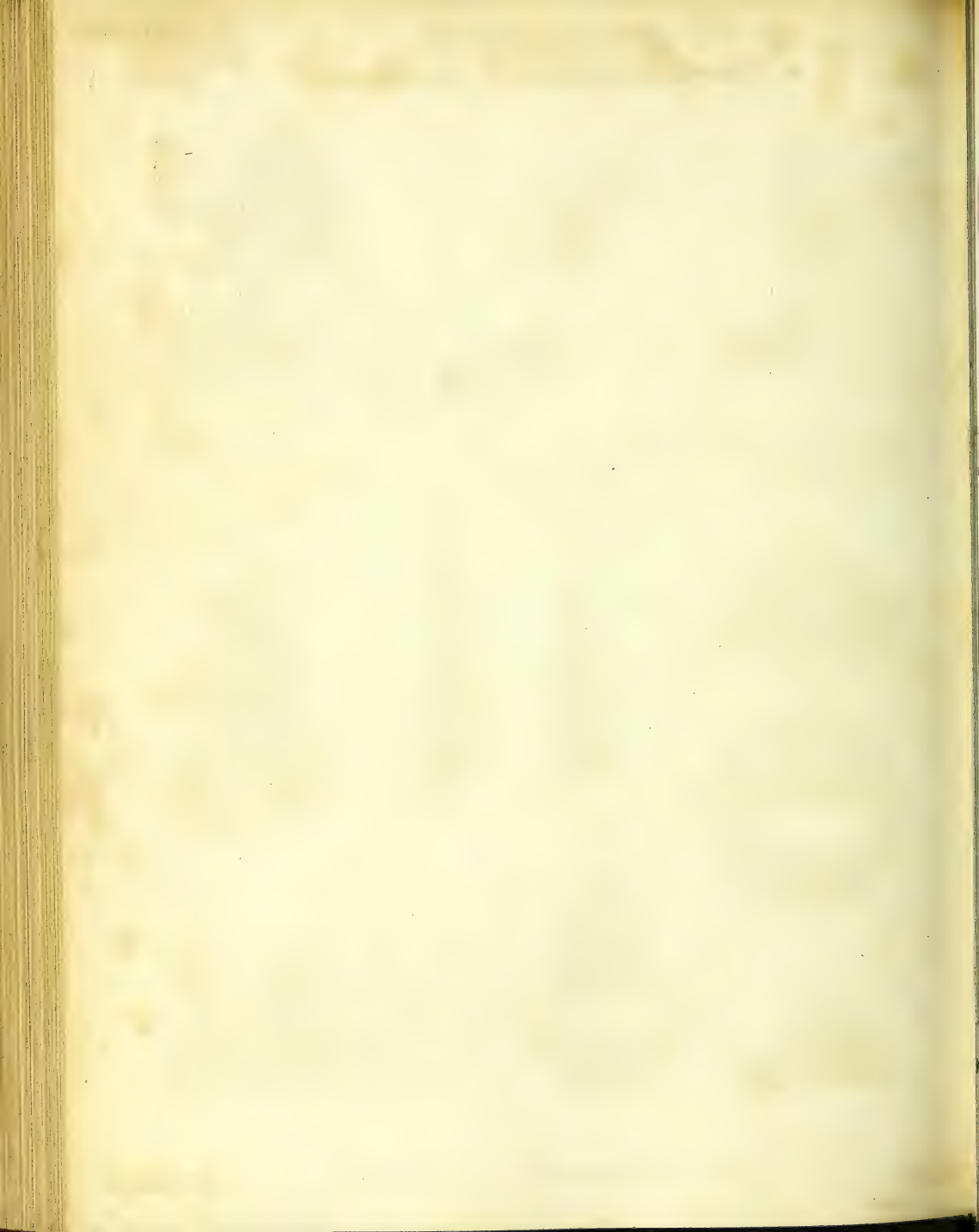
Fig. 6.



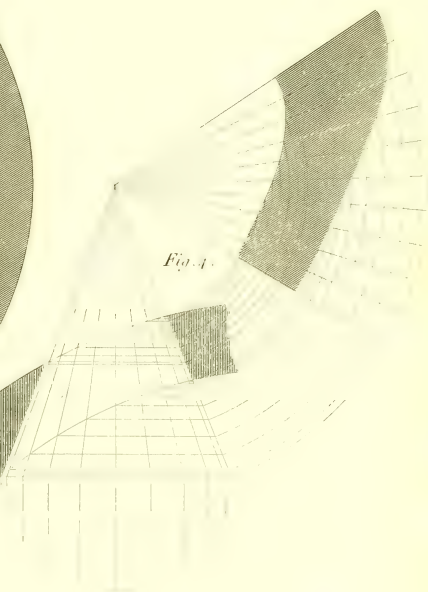
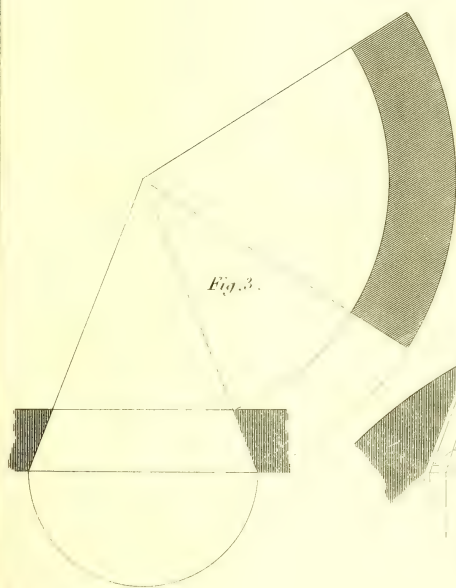
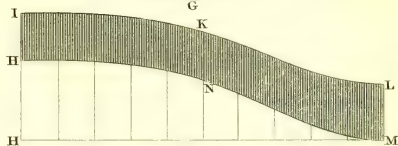
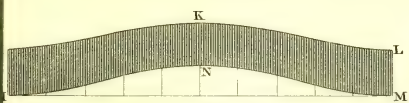
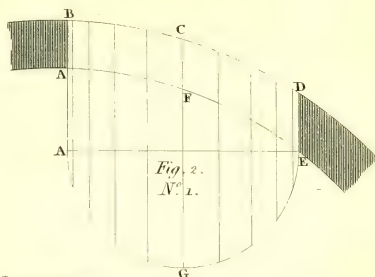
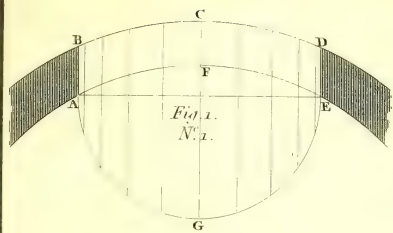


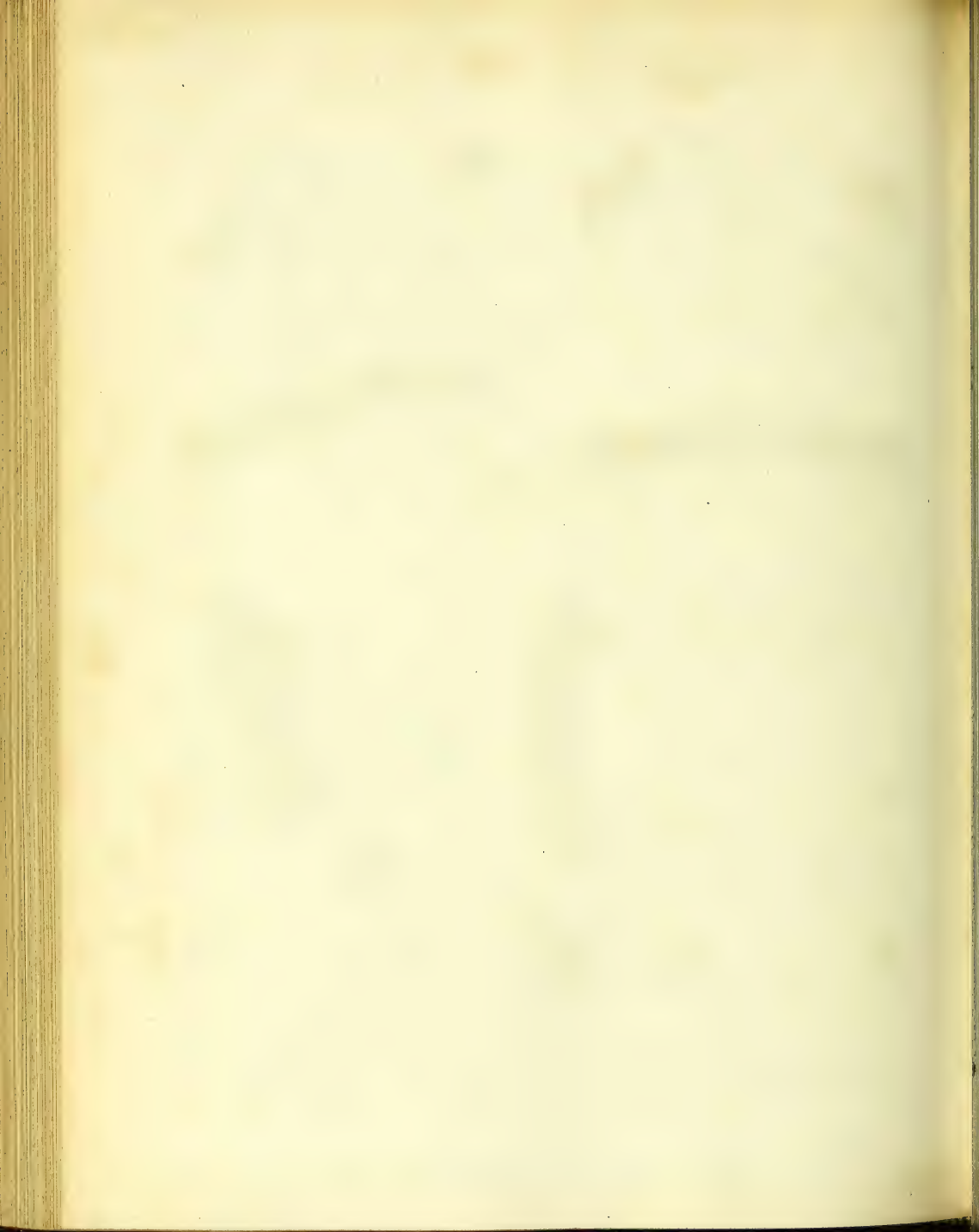
GEOMETRICAL PRINCIPLES OF CARPENTRY.



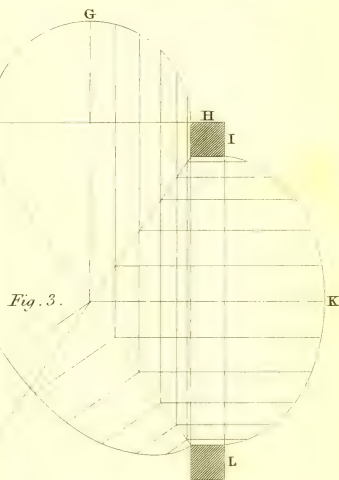
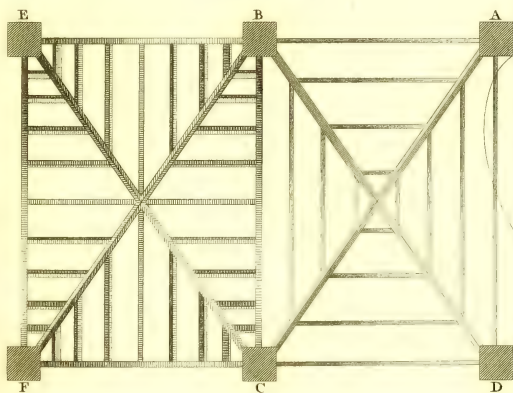
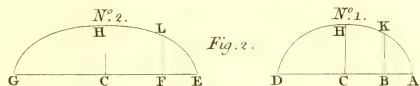
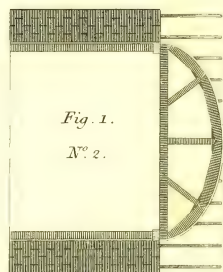
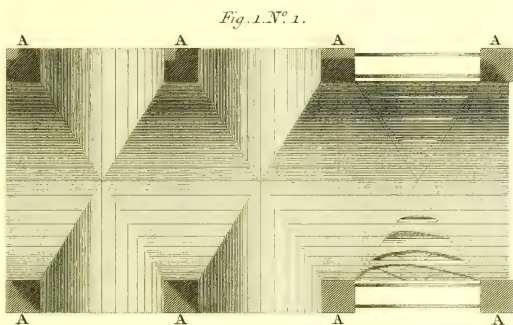
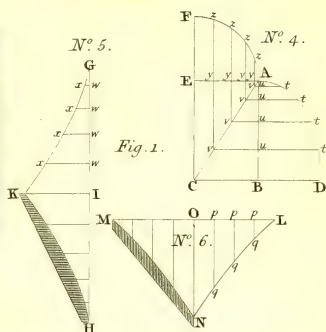
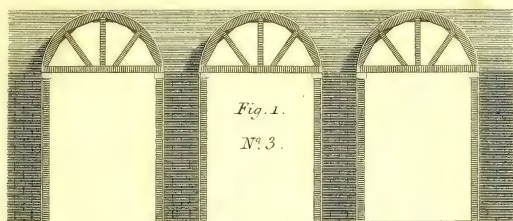


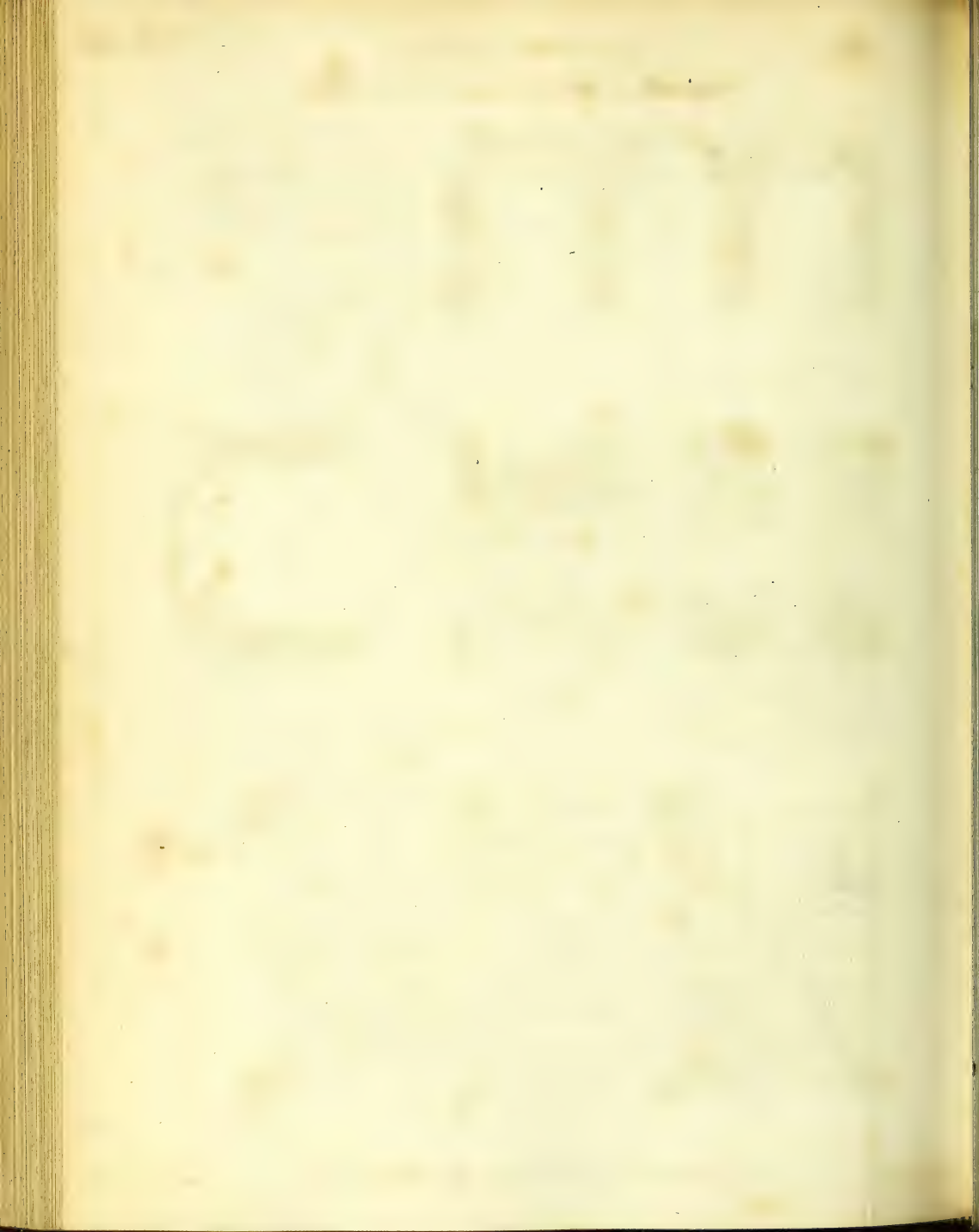
GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.





GROIN.

See M^r Tappin's article and description of this Fig. under Groin.

Fig. 1.

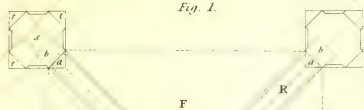


Fig. 2.

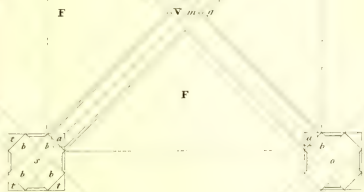


Fig. 2.

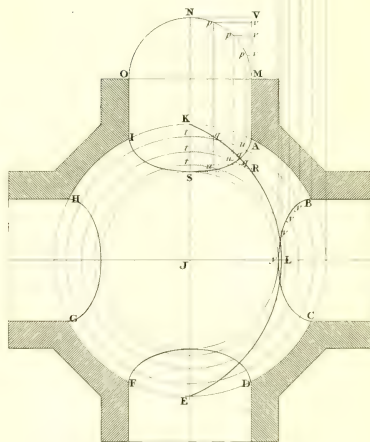
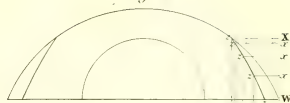


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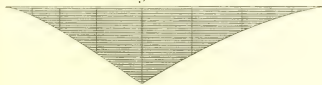


Fig. 4.

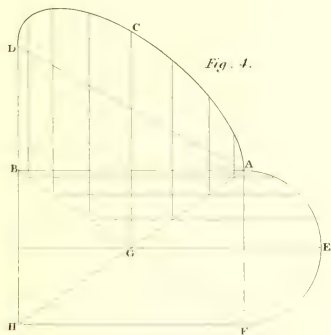
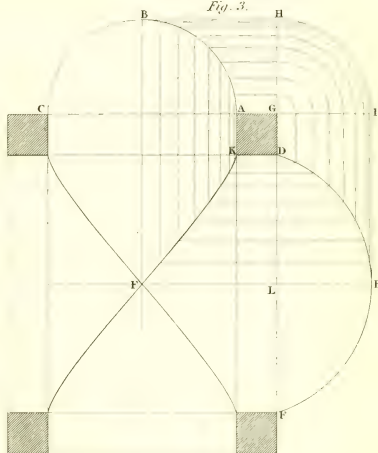
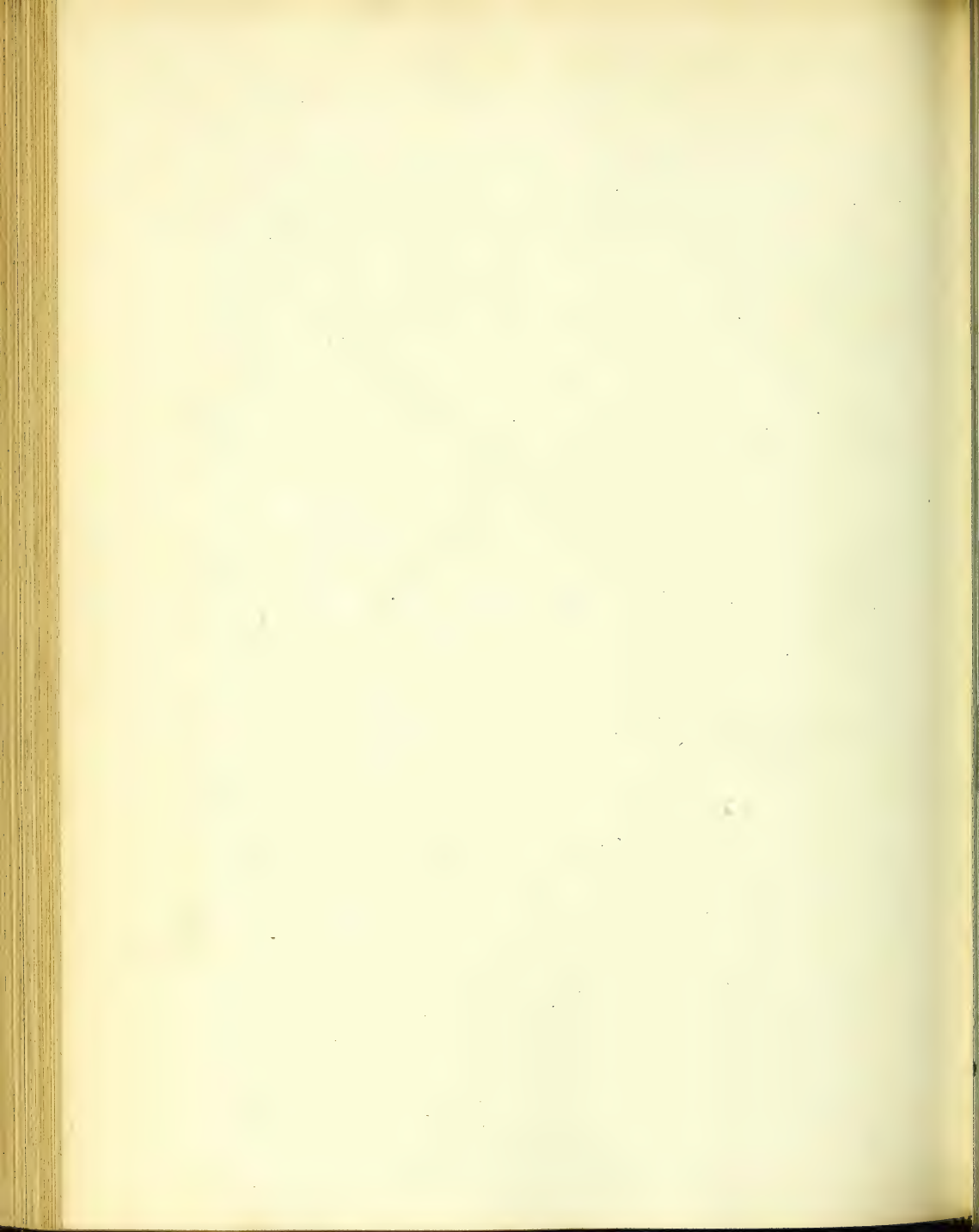
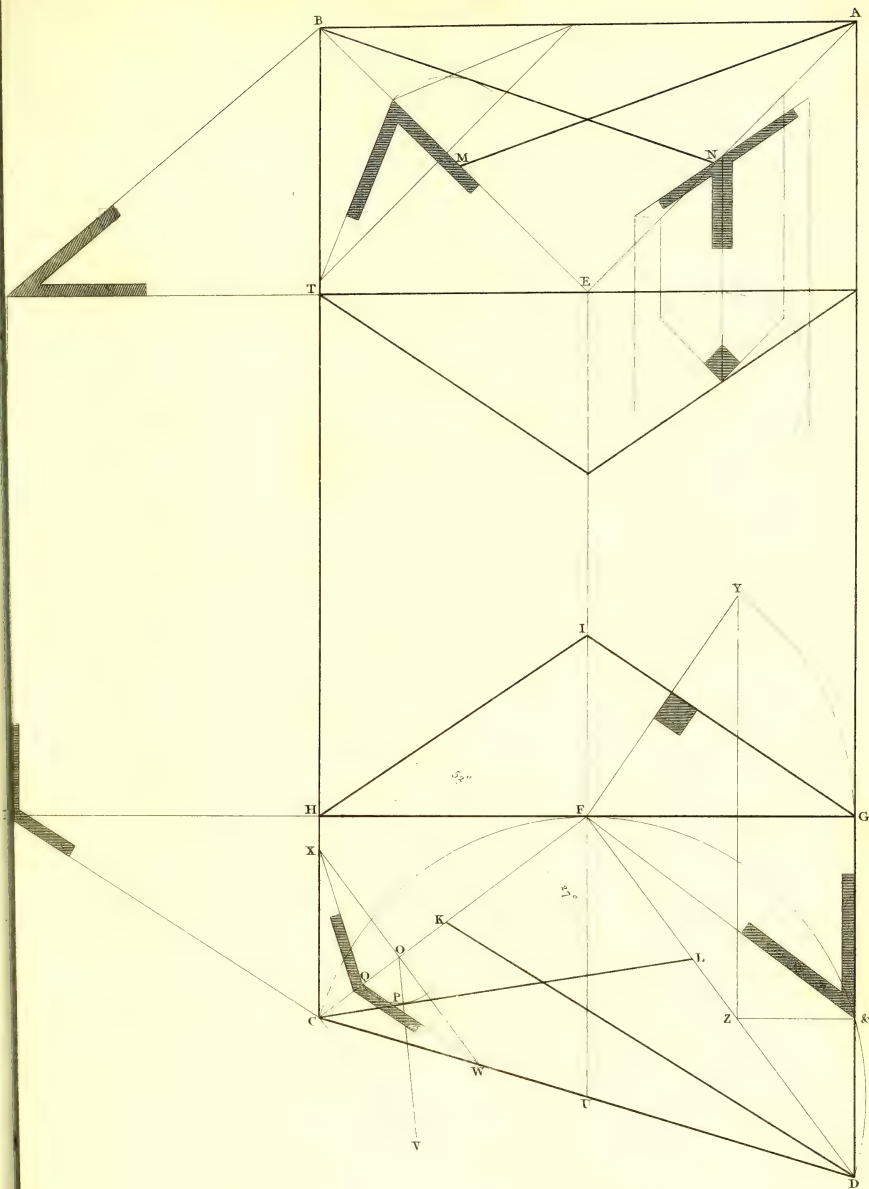


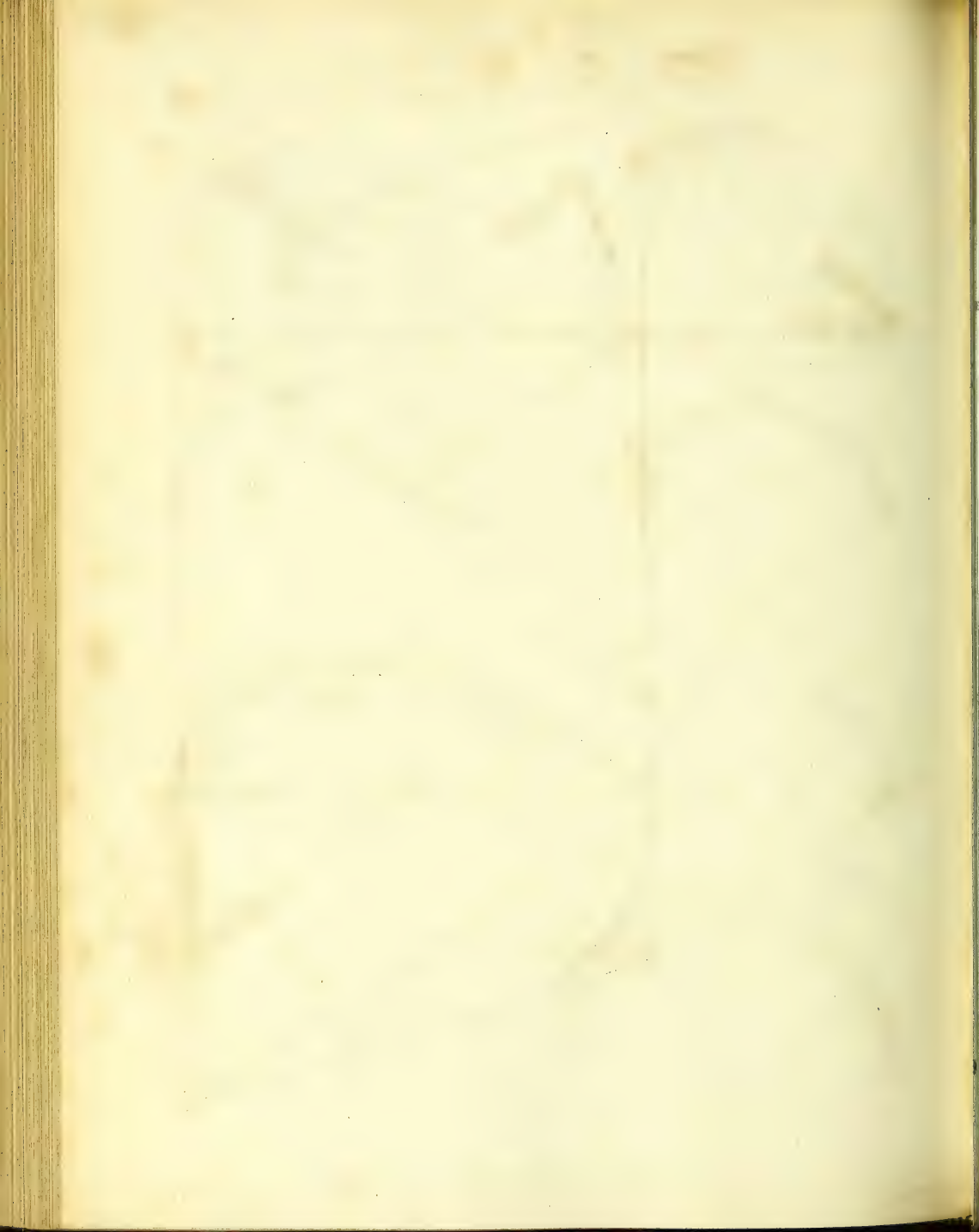
Fig. 3.





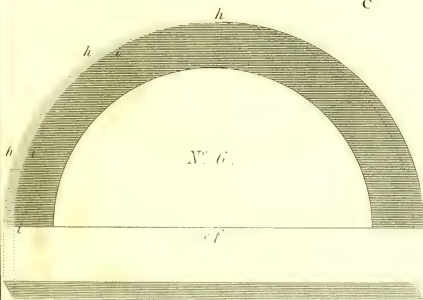
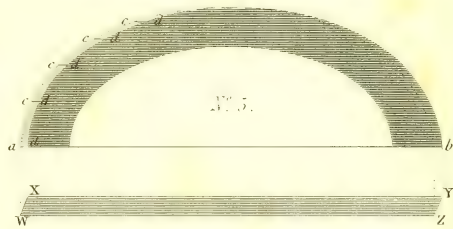
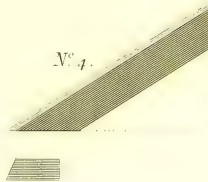
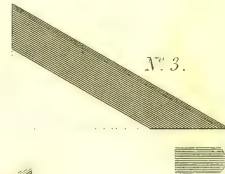
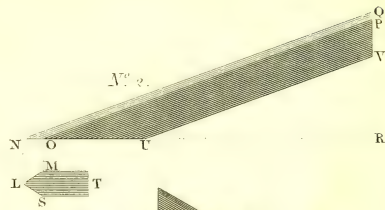
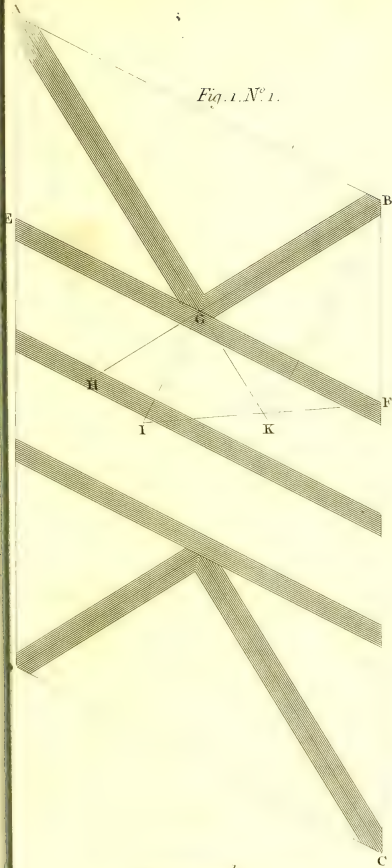
GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1. N^o 1.



GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1.

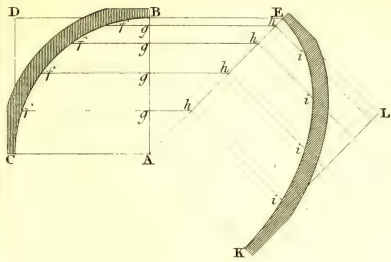


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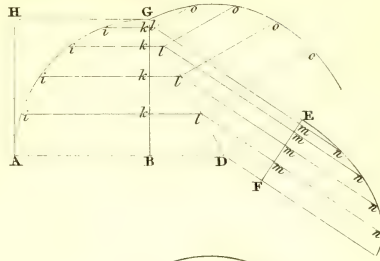


Fig. 3.

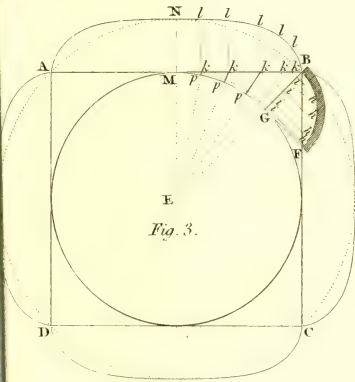


Fig. 4.

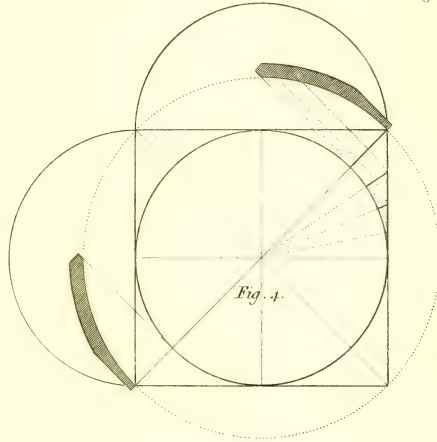


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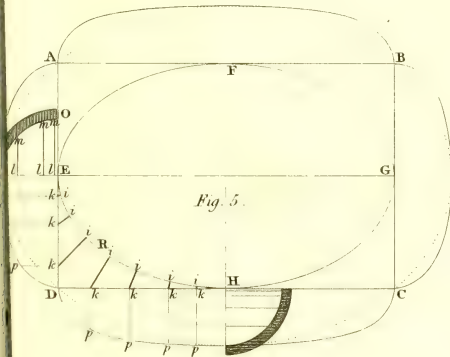
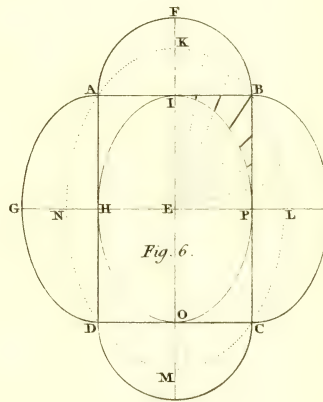
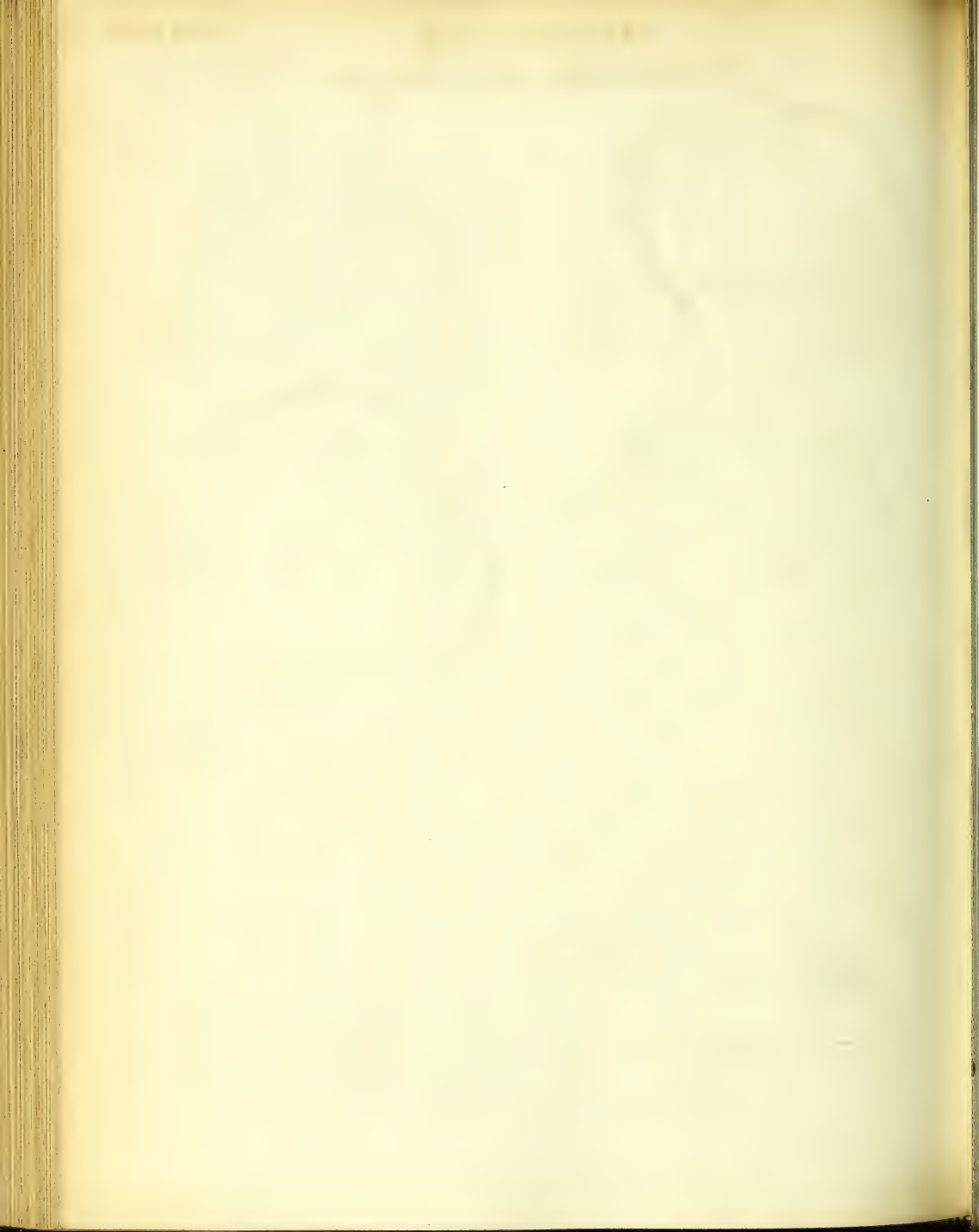


Fig. 6.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1.

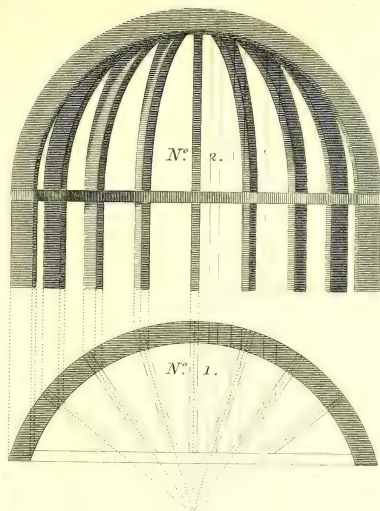
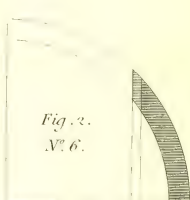
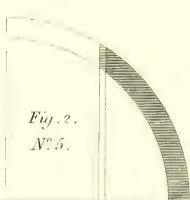
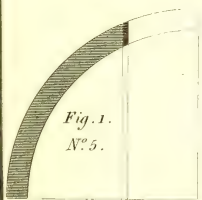
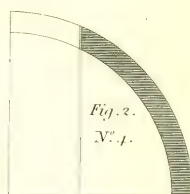
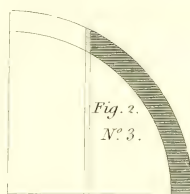
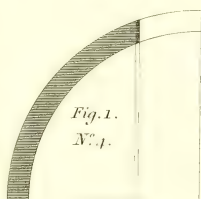
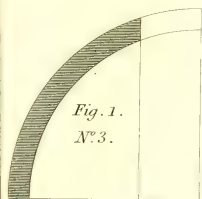
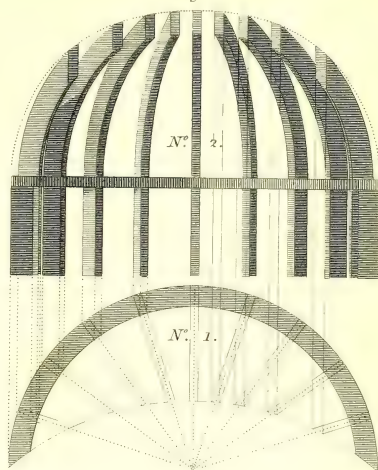
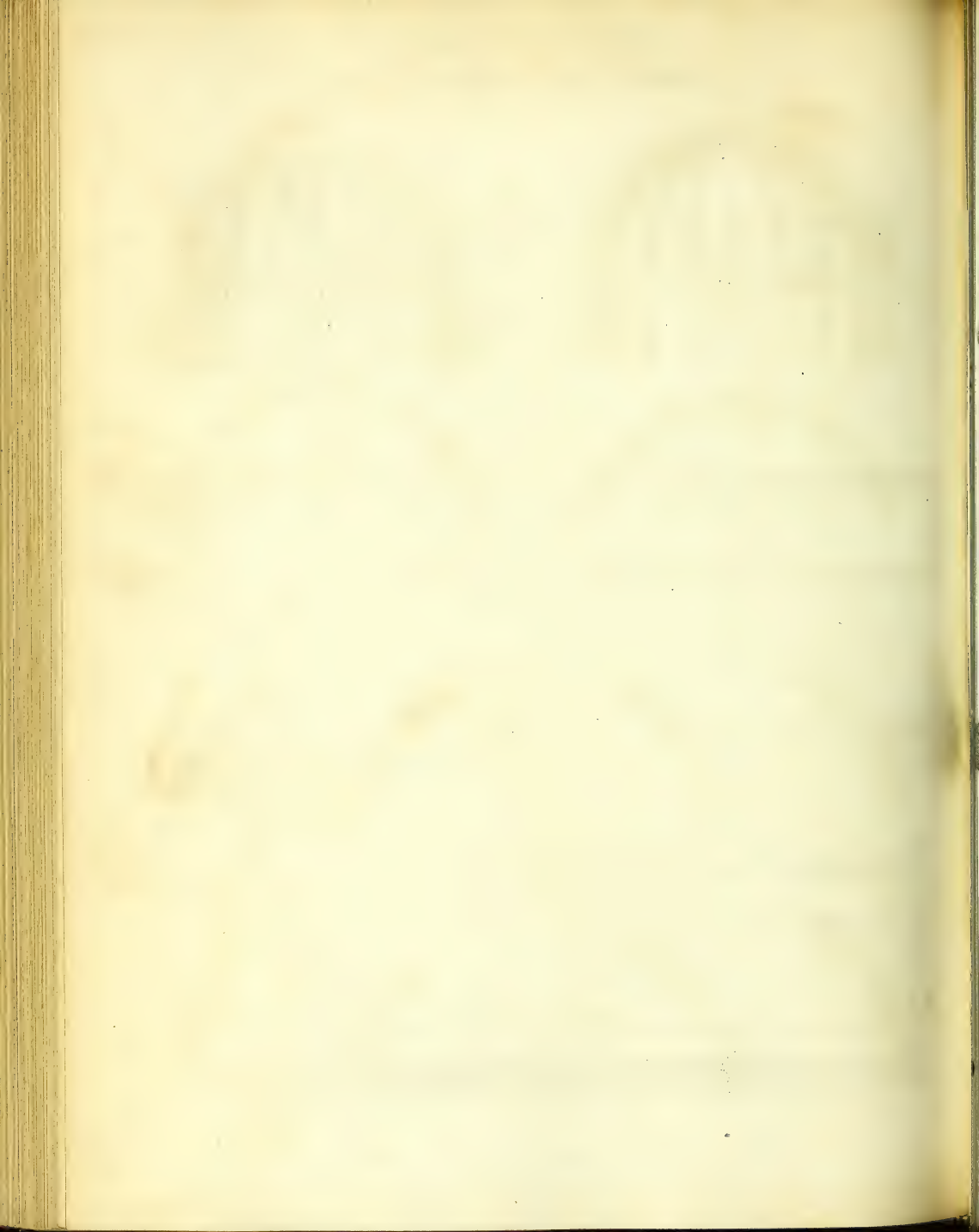


Fig. 2.





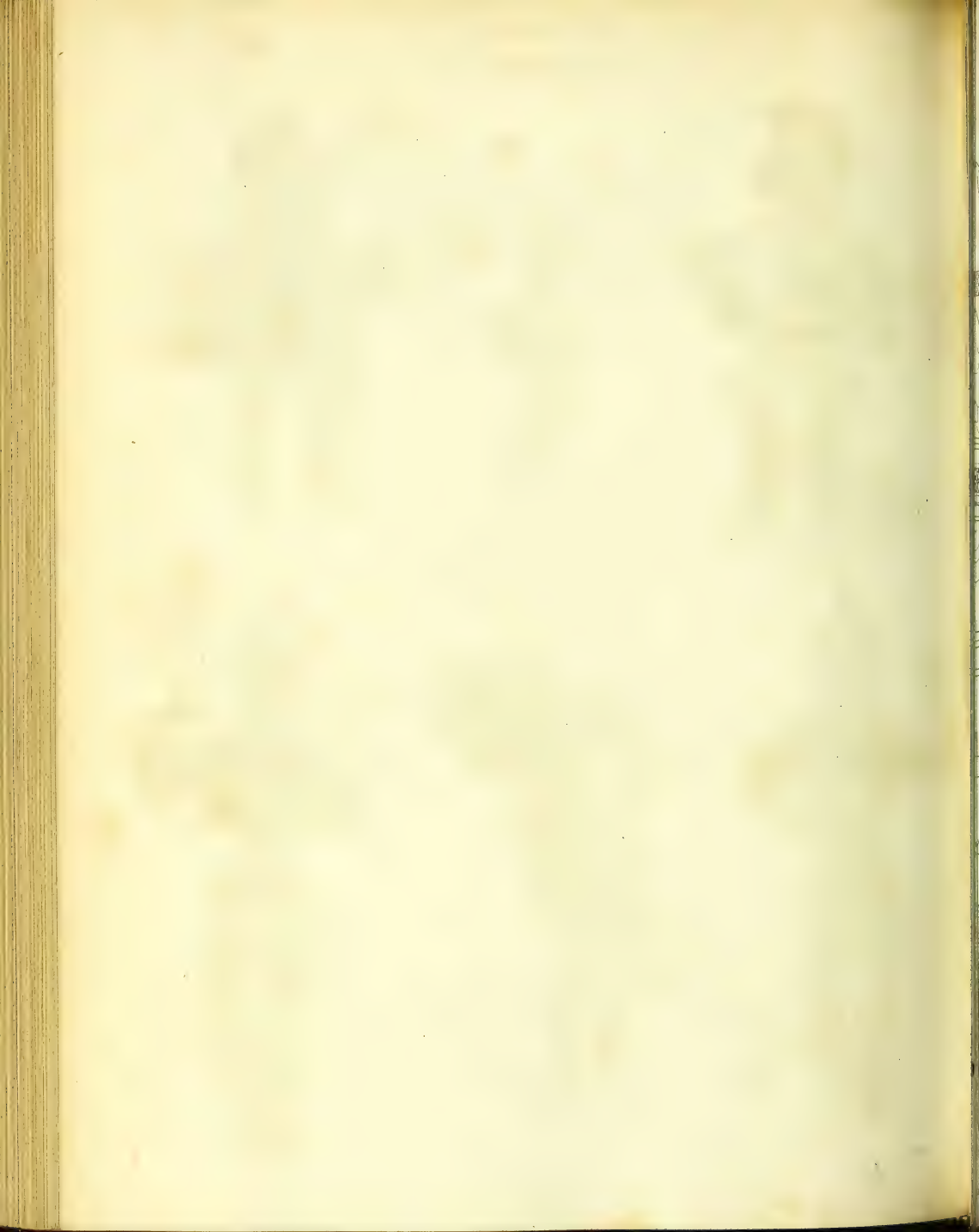
ARMOUR.

Ancient Bronzes.

PLATE



A.D. In the Collection of Payne Knight Esq^r — B.B.C.C. In the British Museum.



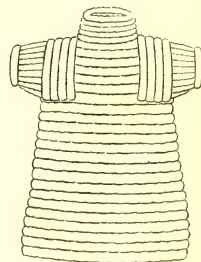
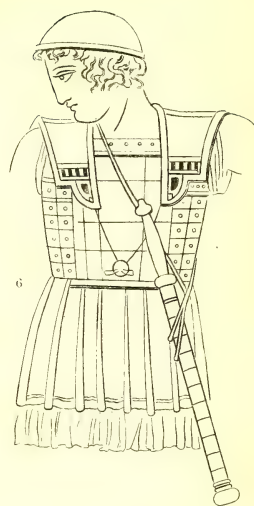
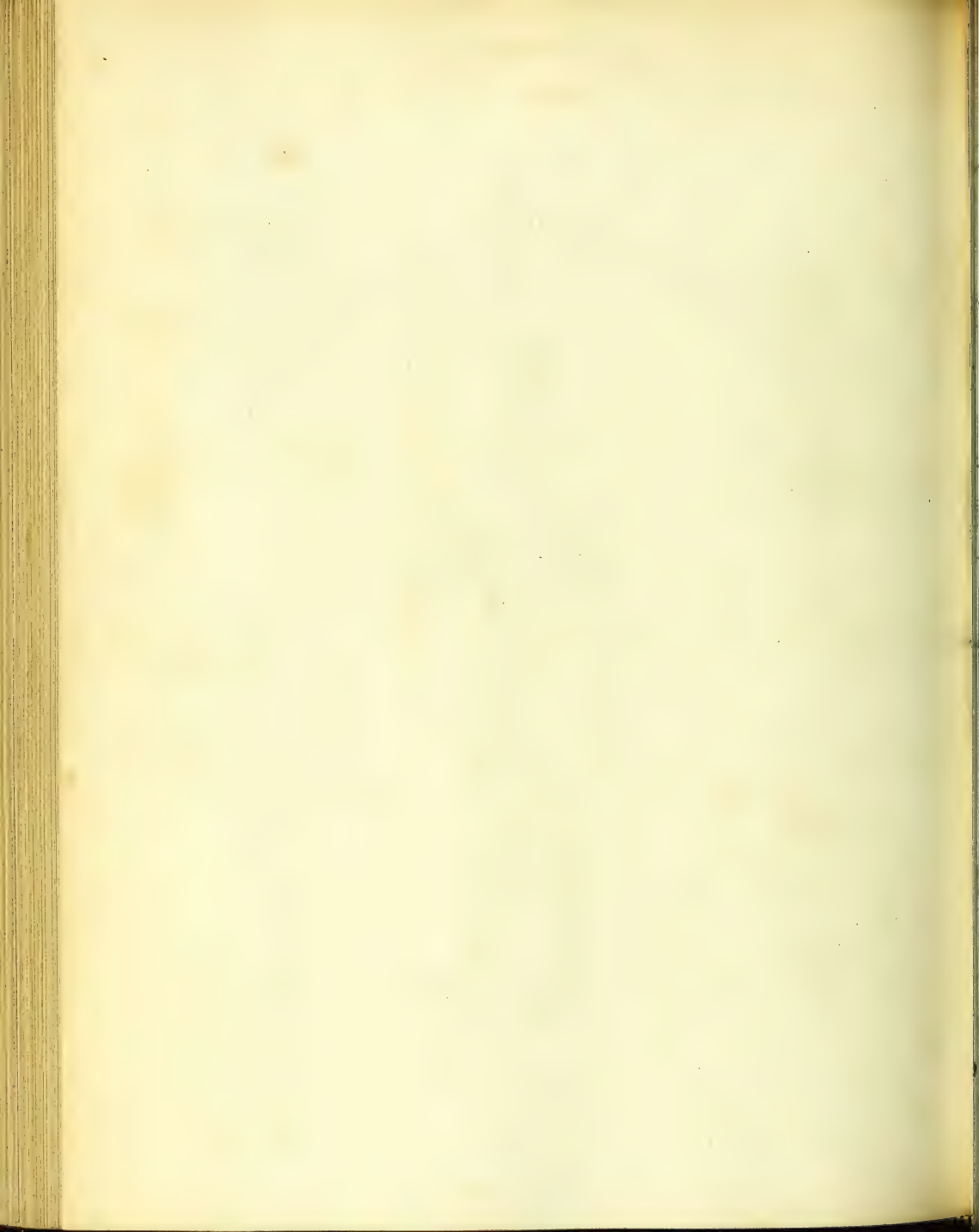
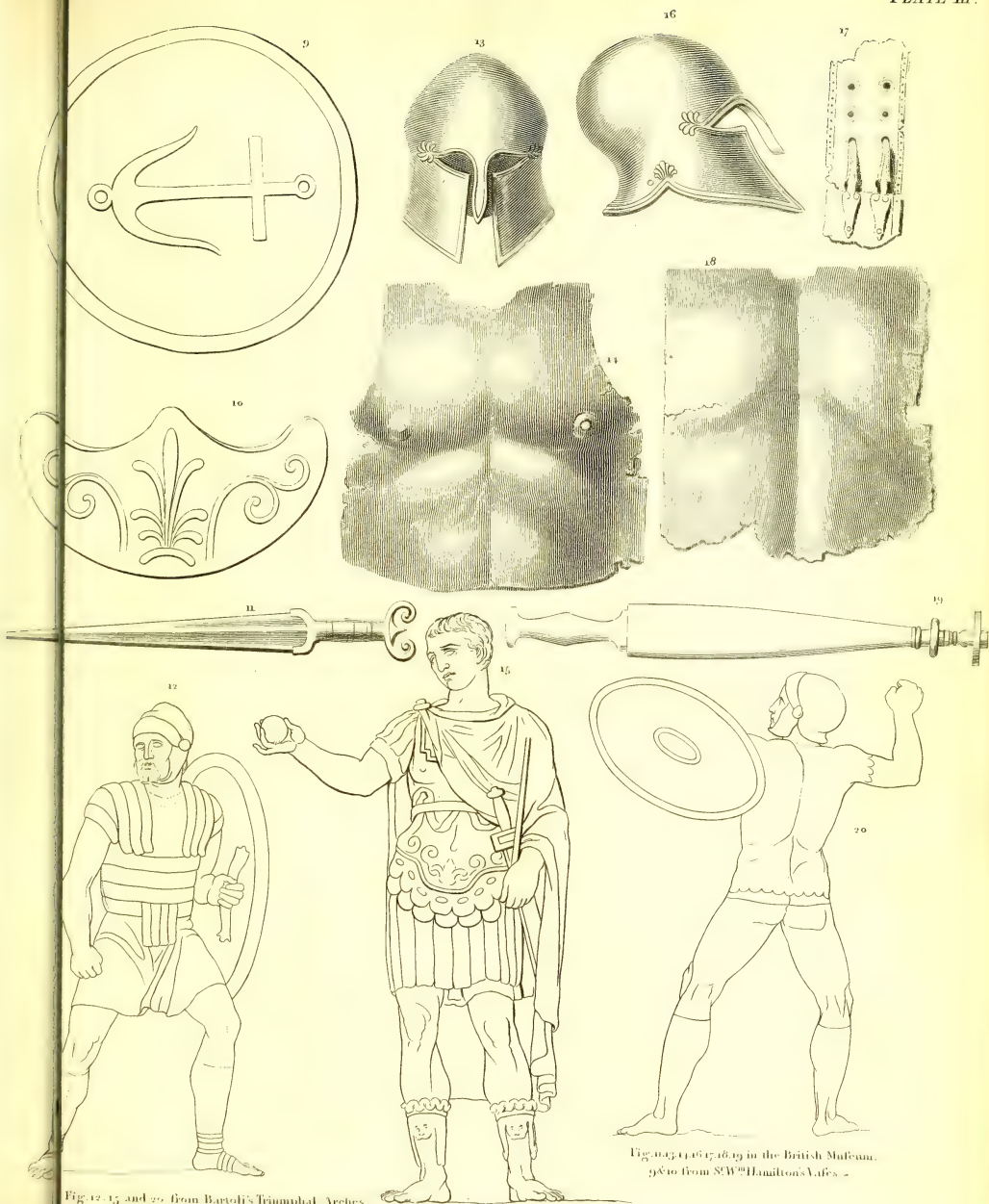


Fig. 3 from Deion.
 4 & 7 from the Tuffen Gallery
 5 from Cora.
 6 from S.W. Hamilton's Vases.
 8. A Bronze in the British Museum.





Figures 14, 15, 16, 17, 18, 19 in the British Museum.
 9 & 10 from Sir Wm Hamilton's Vases.

Fig. 12, 13, and 20 from Bartoli's *Triumphal Arches*.

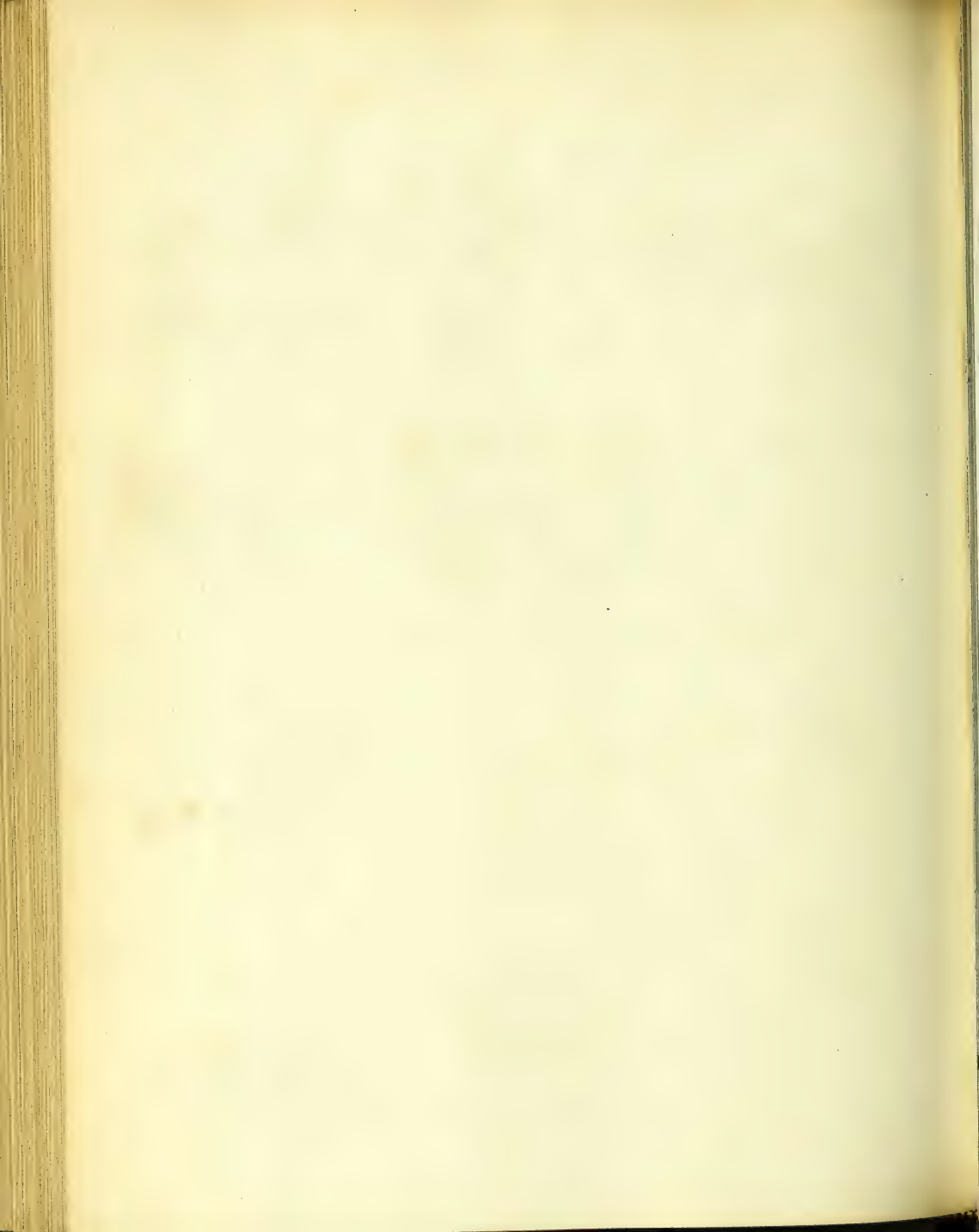


Fig. 1.

Fig. 5.

Fig. 3.

Fig. 4.

Fig. 2.

Plate V.

Fig. 4.

Plate V. Fig. 2.

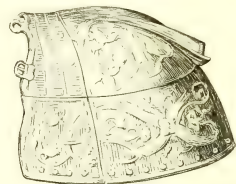
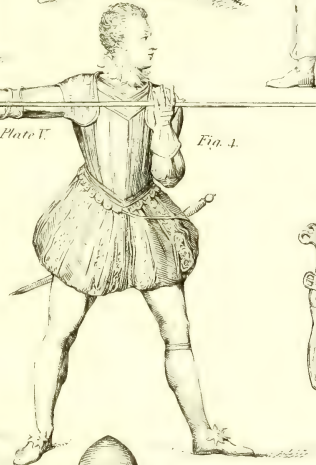


Plate V.

Fig. 3.

Plate IV.

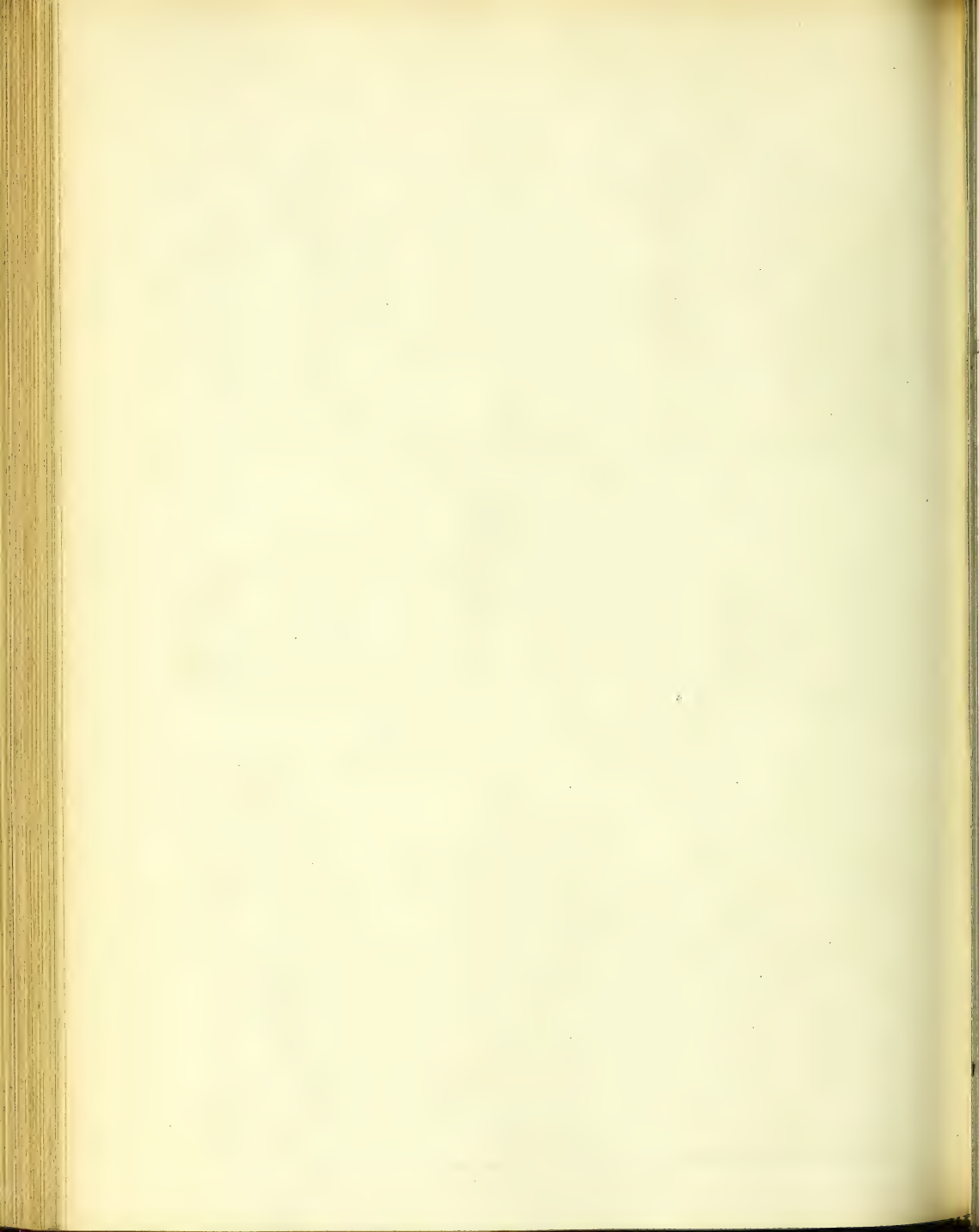
Fig. 6.

Plate V.

Fig. 1.



Blake sc



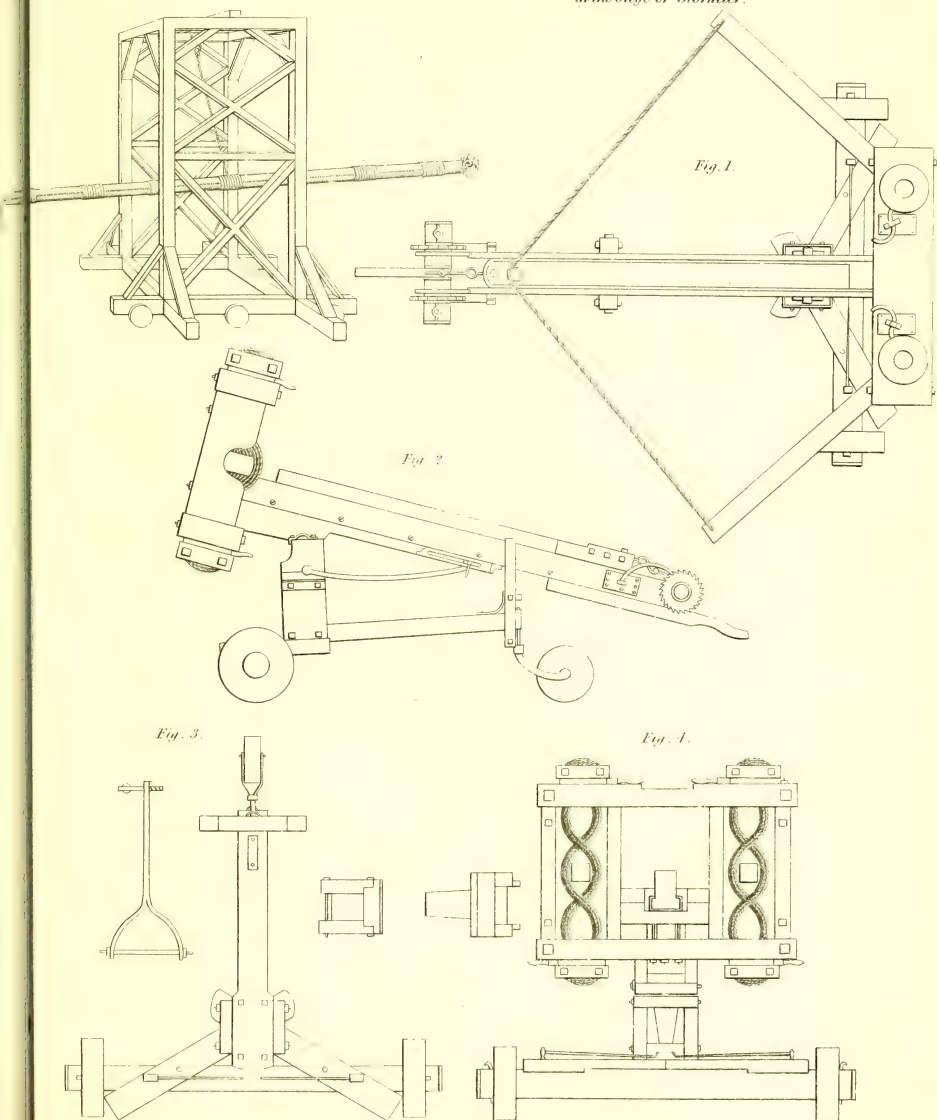
ARTILLERY.

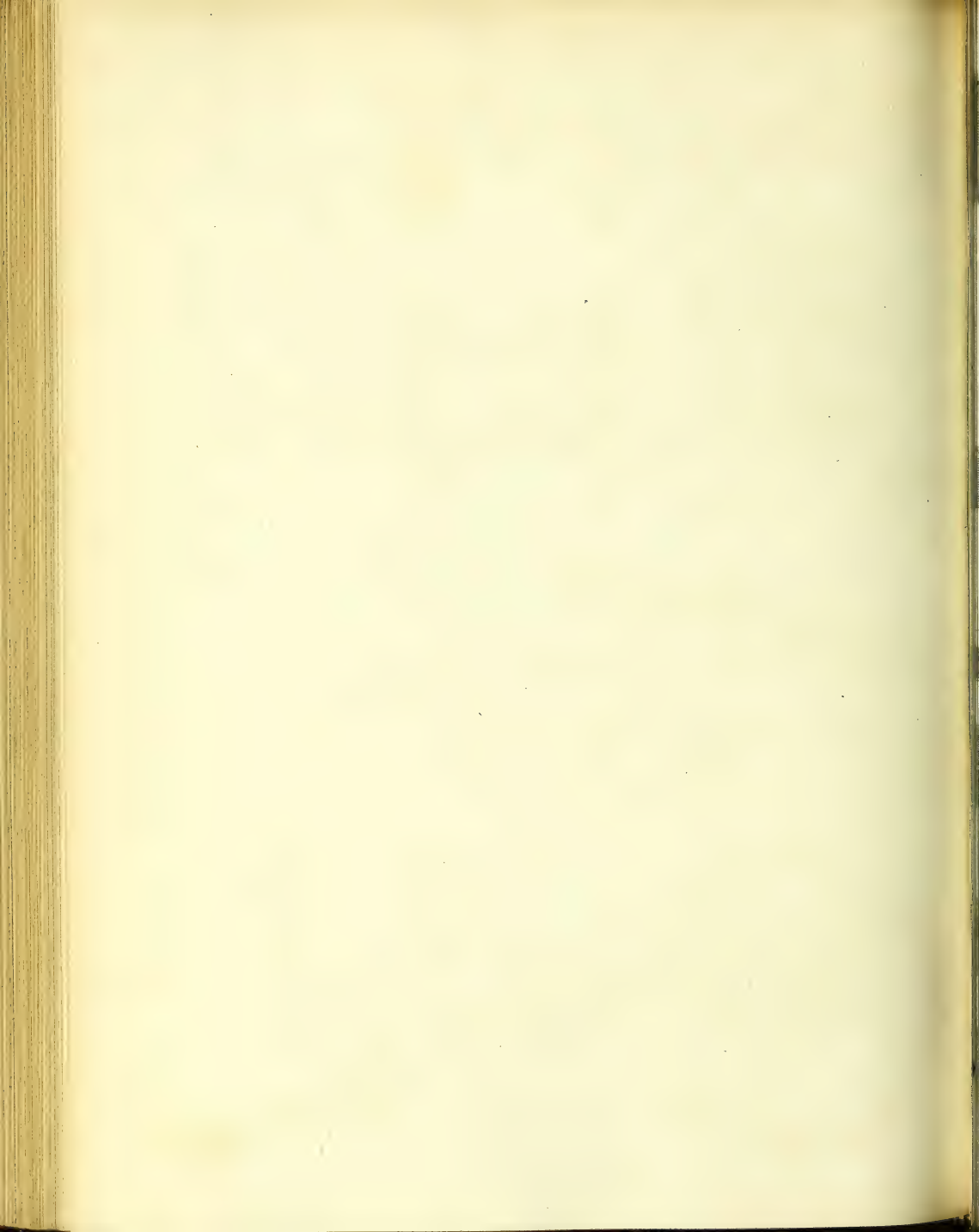
PLATE I & II.

BATTERING RAM and CATAPULTA.

PLATE I. ARIES, or Battering Ram.

PLATE II. CATAPULTA, used by Lord Heathfield,
at the Siege of Gibraltar.





ARTILLERY. CARRIAGES.

PLATE I.

Fig. 2.

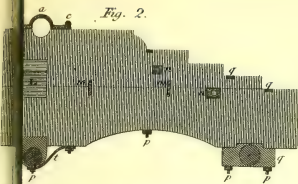


Fig. 1.

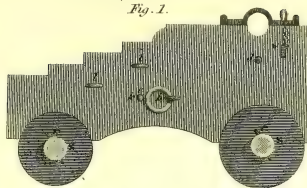


Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.



Fig. 10.



Fig. 8.



Fig. 9.

Fig. 11.

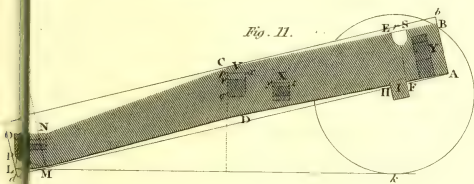


Fig. 12.

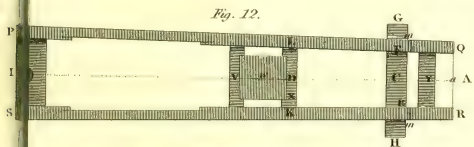
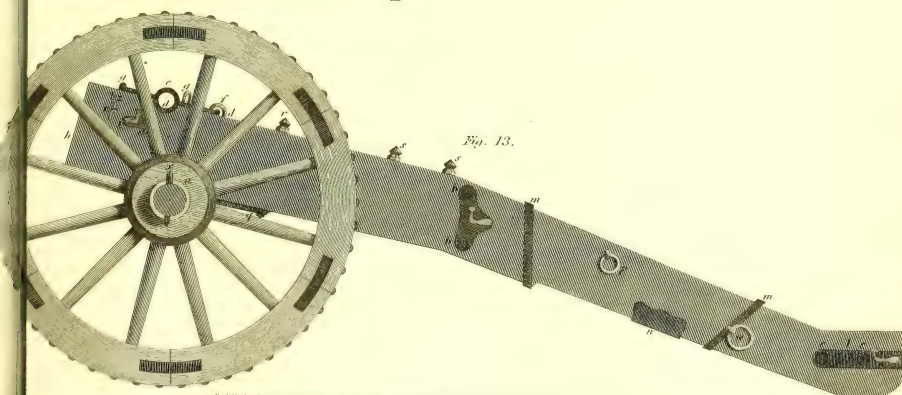
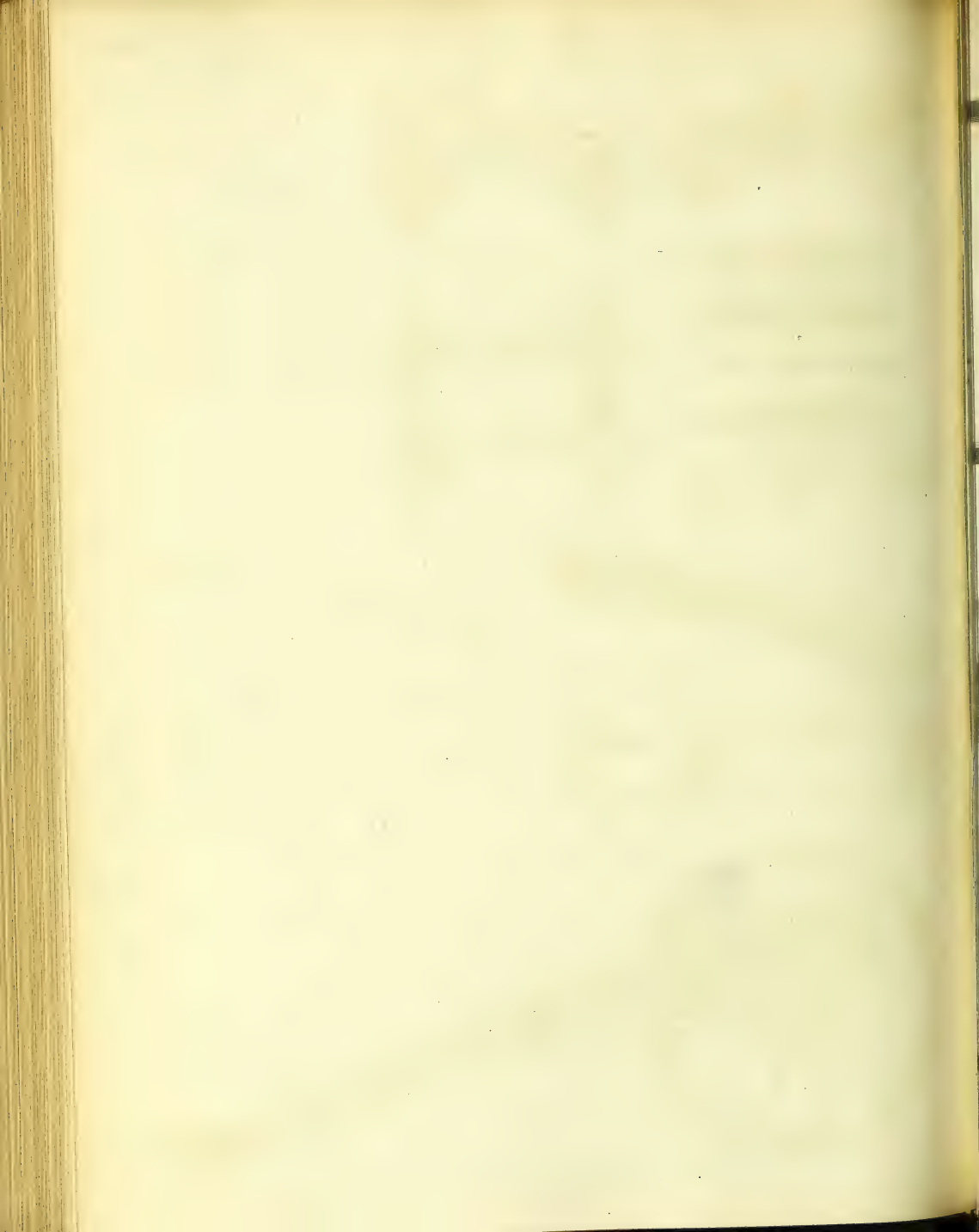


Fig. 13.





ARTILLERY.

PLATE II.

CARRIAGE.

Fig. 14.

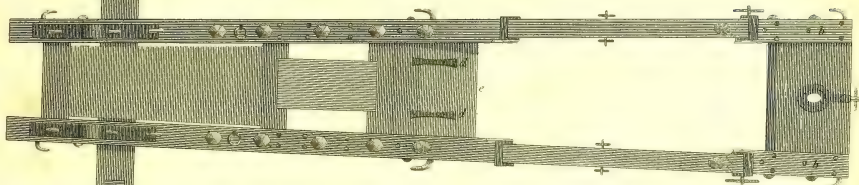


Fig. 17.

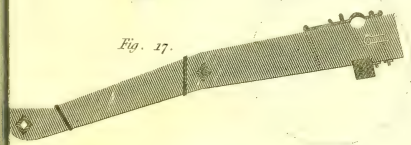


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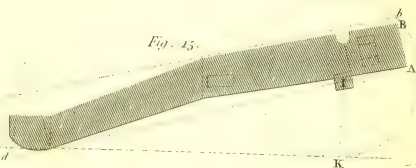


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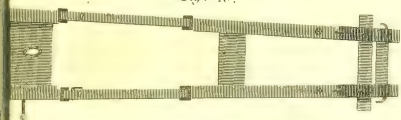


Fig. 16.

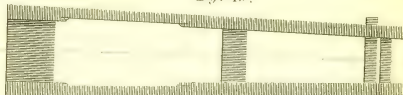


Fig. 19.

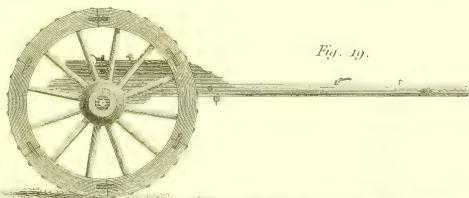
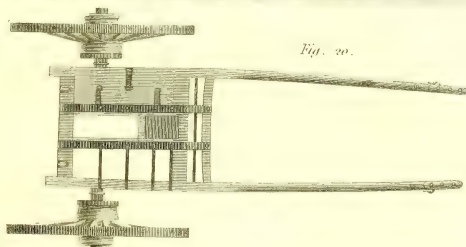
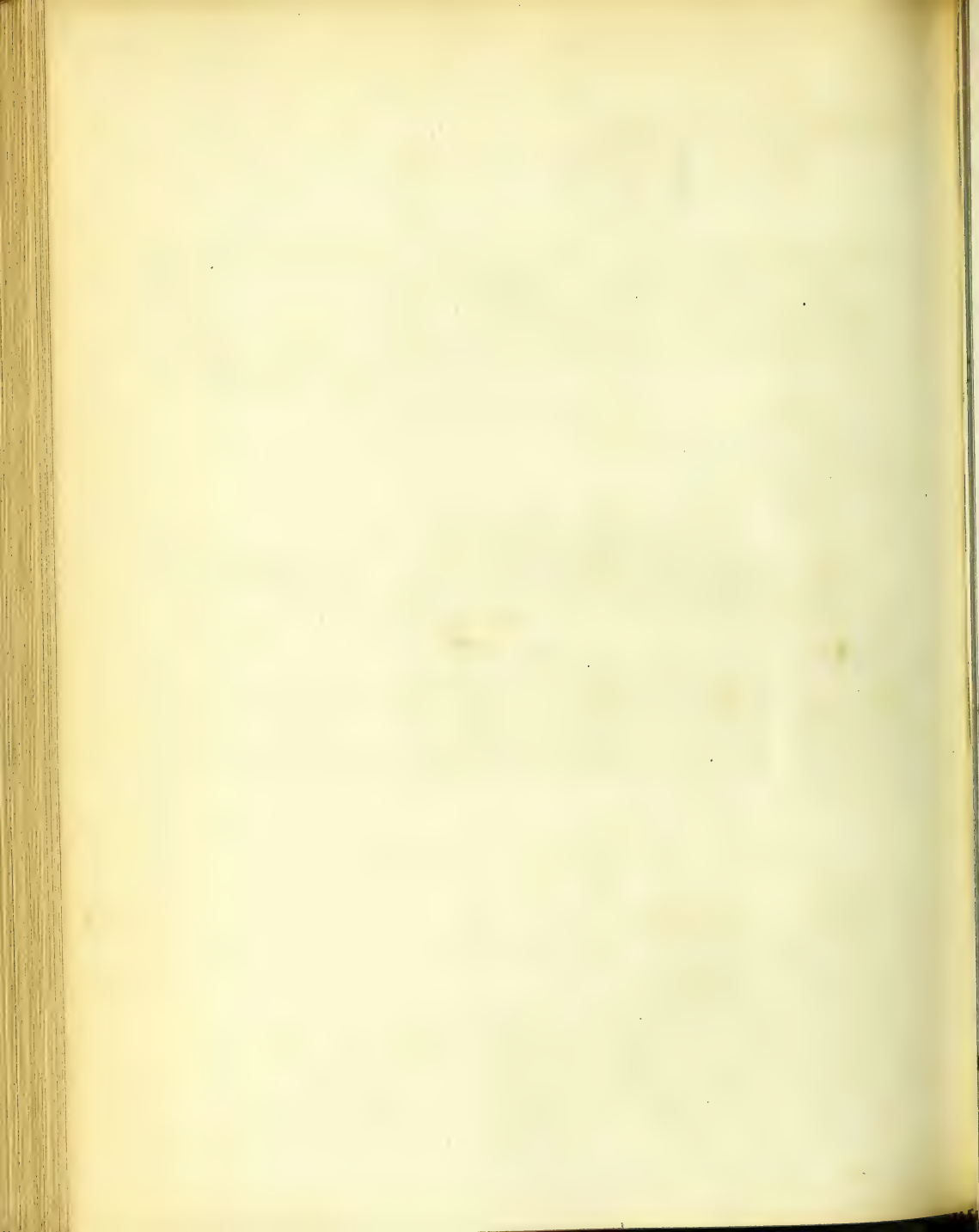


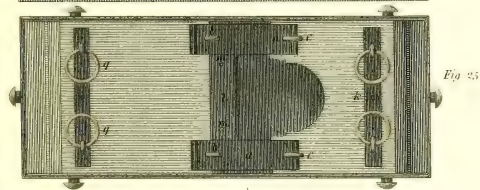
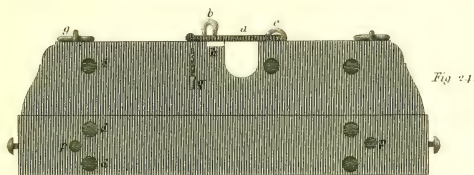
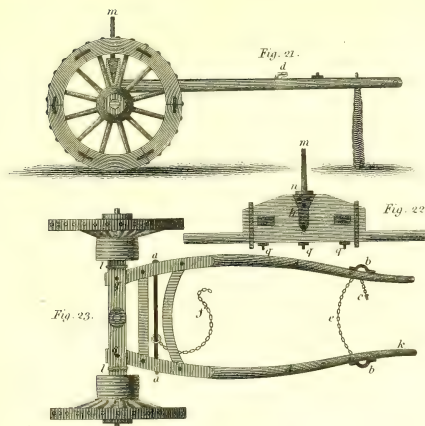
Fig. 20.



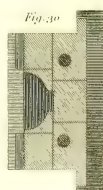
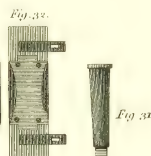
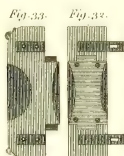
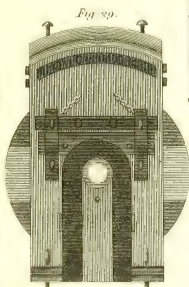
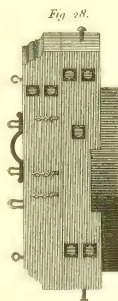


ARTILLERY. CARRLAGES.

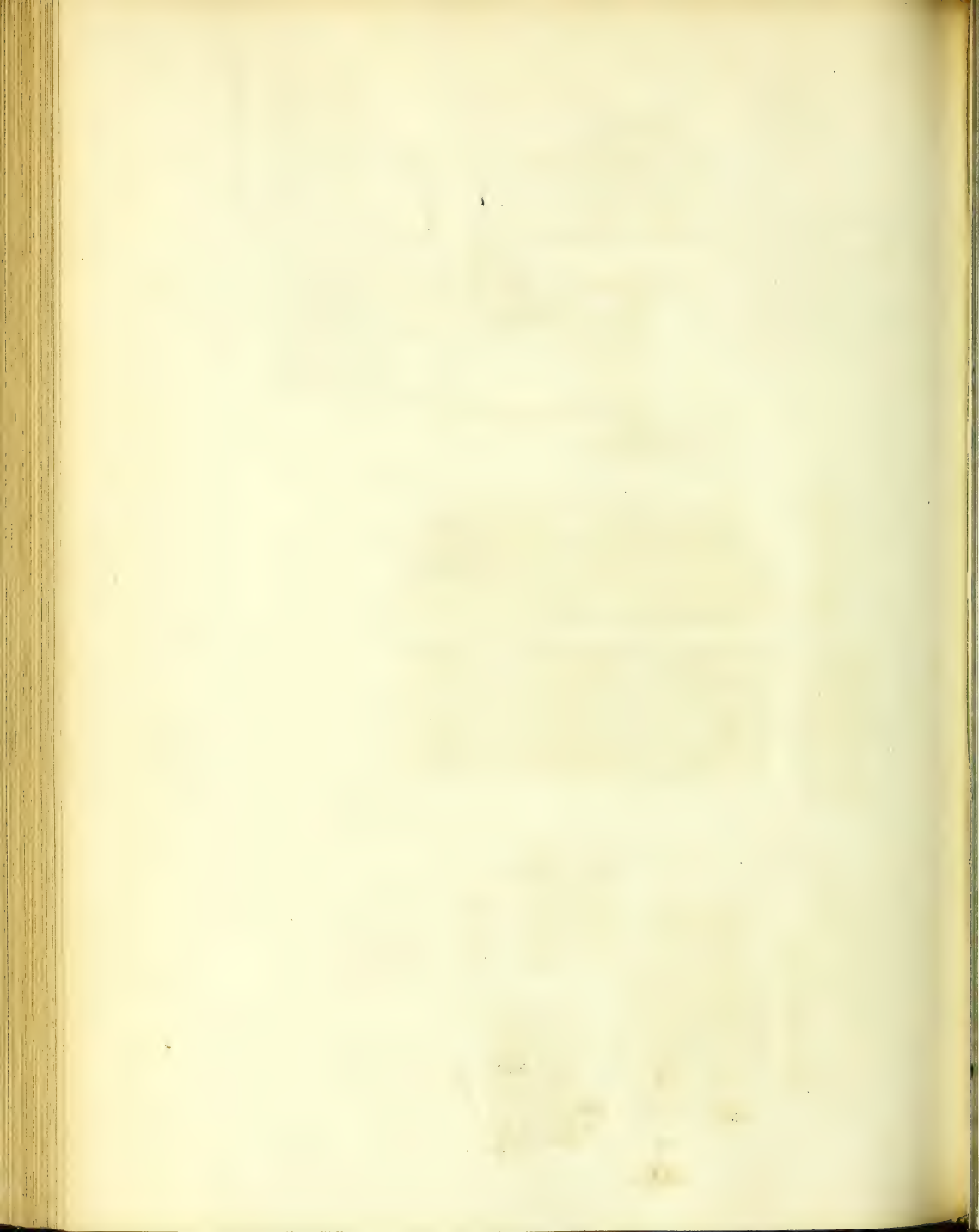
PLATE III.

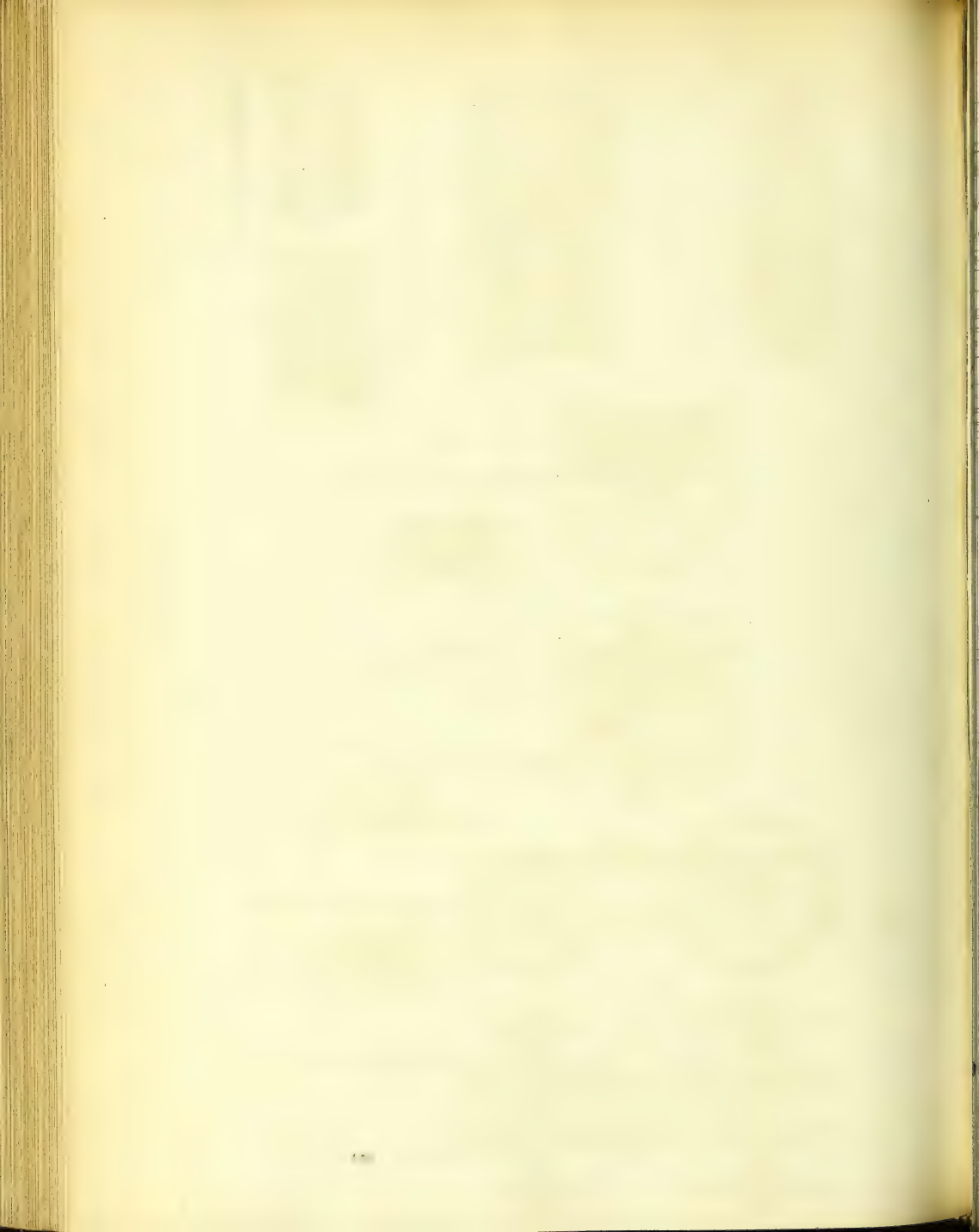


Inches
10 20 30 40



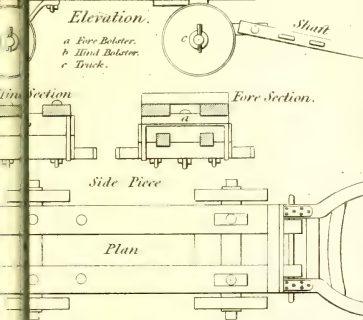
Feet
1 2 3 4





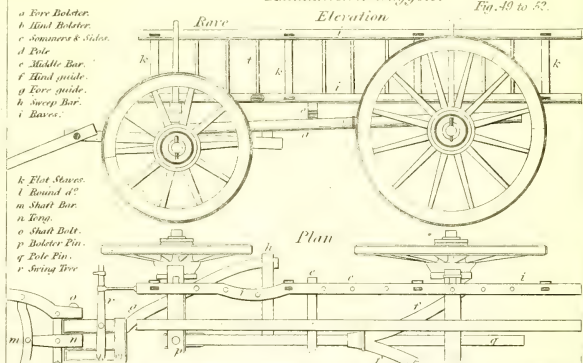
Truck Carriage.

Fig. 45 to 48.

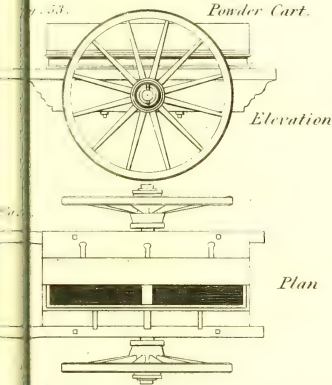


Ammunition Wagon.

Fig. 49 to 52.

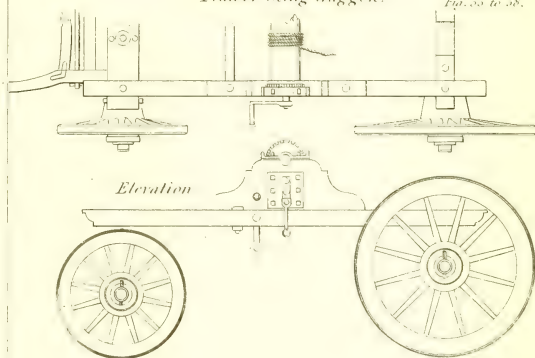


Powder Cart.



Plan of Sling Wagon.

Fig. 53 to 58.



Elevation of Sling Cart.

Fig. 59.

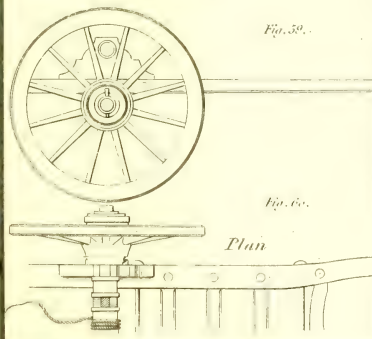
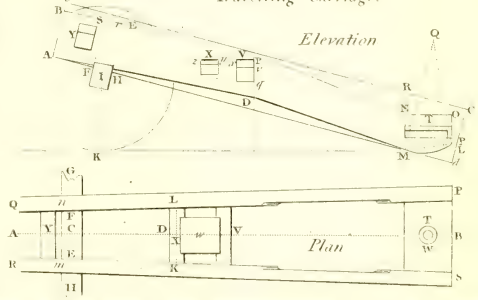
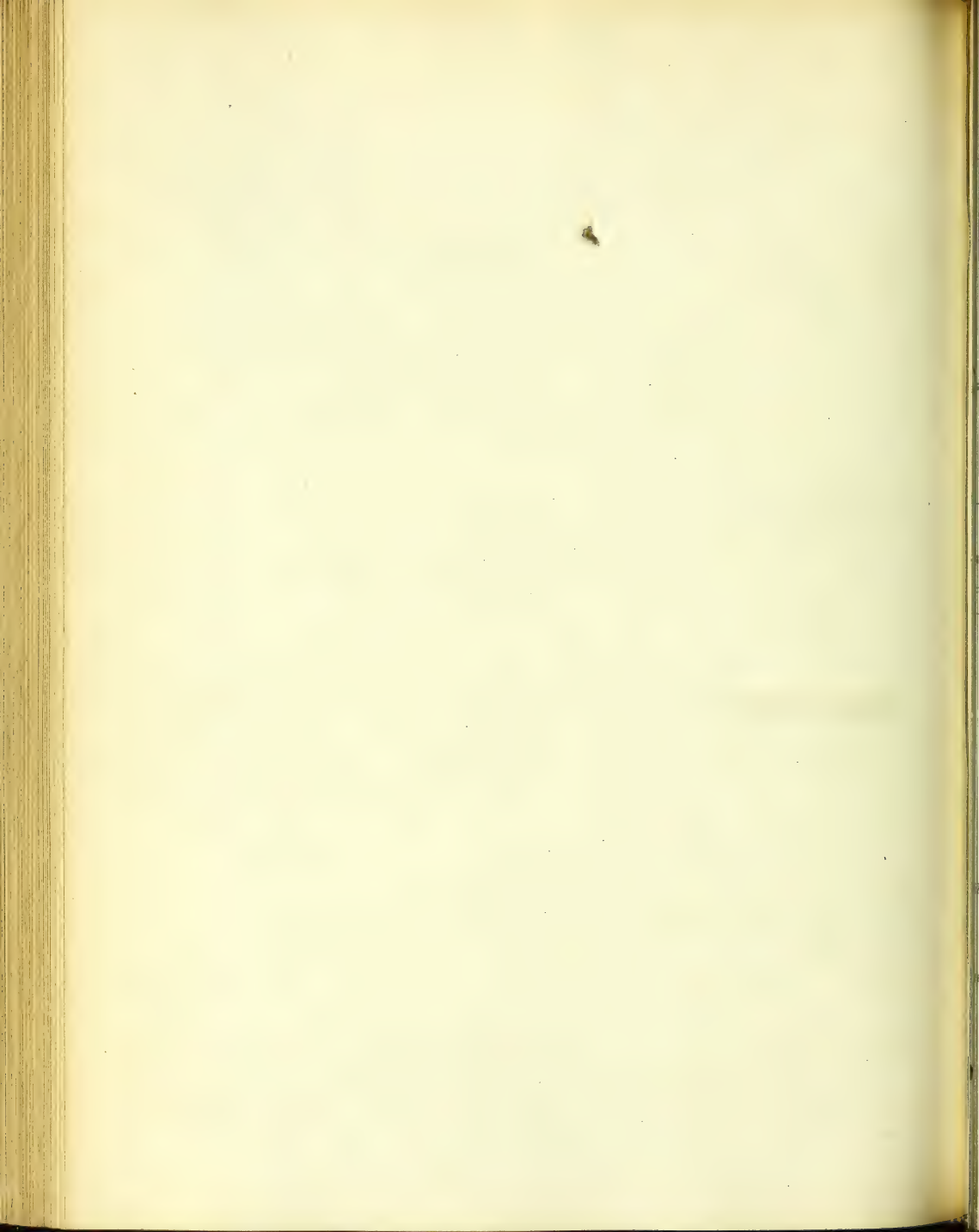


Fig. 61.

Travelling Carriage.





ABERRATION

Fig. 2.

Fig. 4.

CULMINATION

Fig. 3.

ALTITUDE

Fig. 5.

Fig. 6.

REFRACTION OF ALTITUDE

Fig. 7.

PARALLAX OF ALTITUDE

Fig. 8.

ARC

Fig. 11. *

ANOMALY

Fig. 9. *

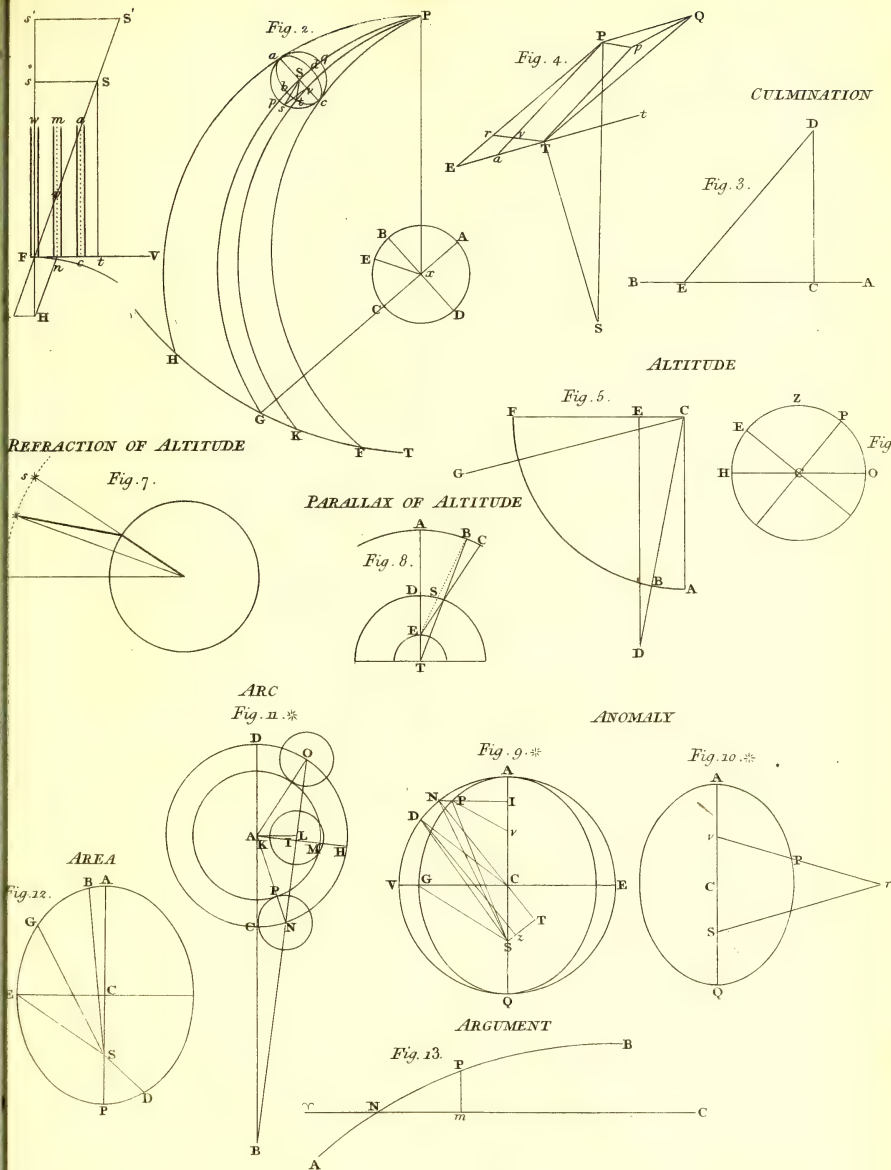
Fig. 10. *

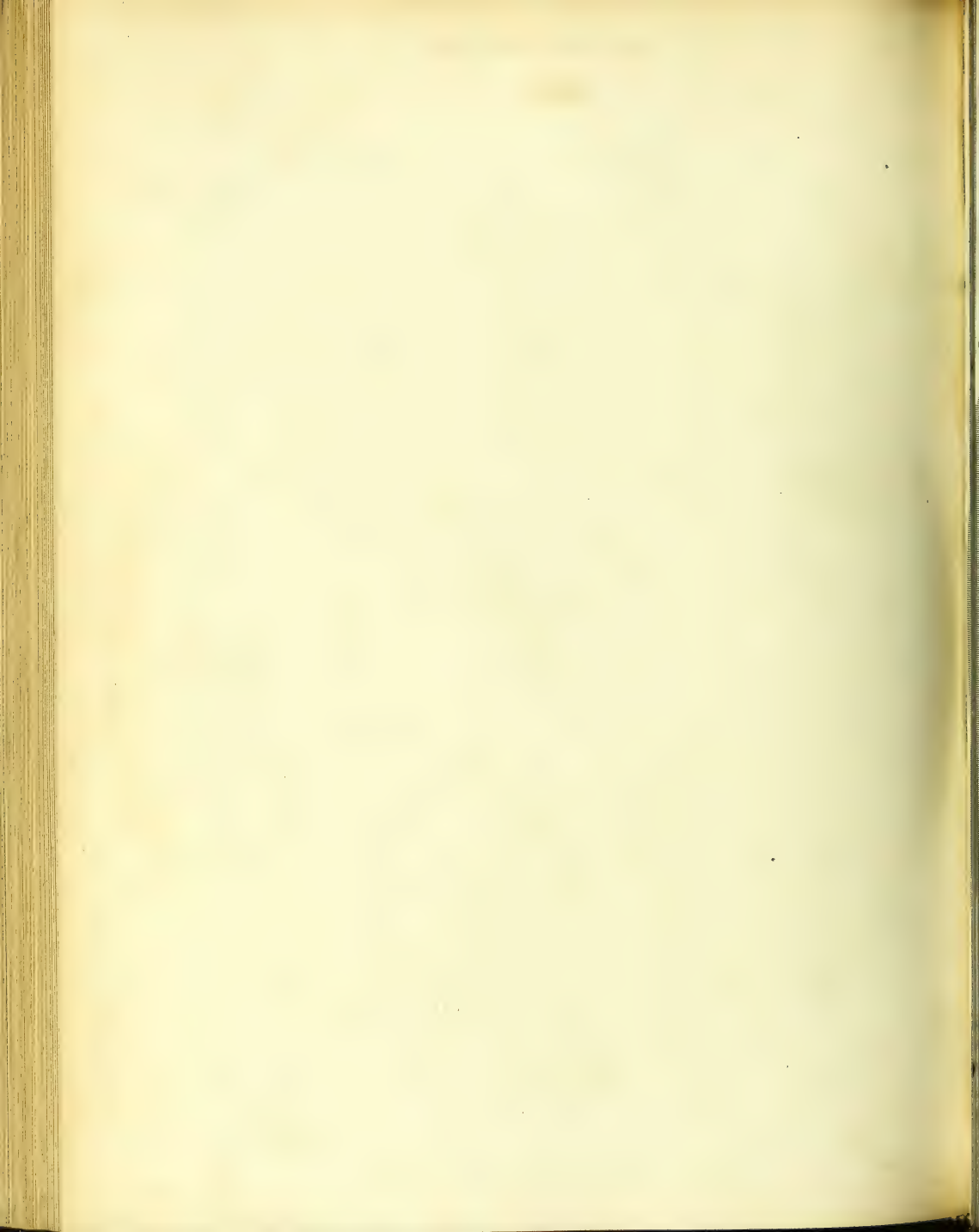
AREA

Fig. 12.

ARGUMENT

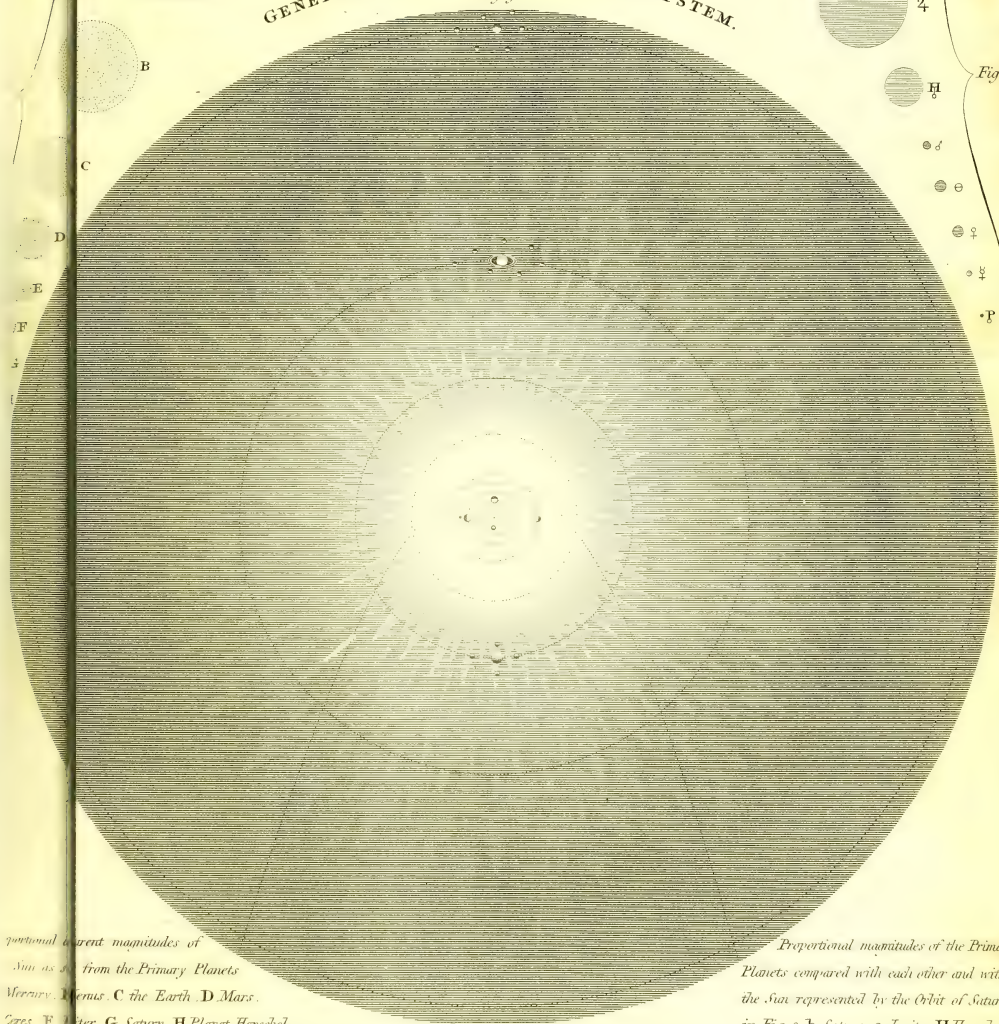
Fig. 13.





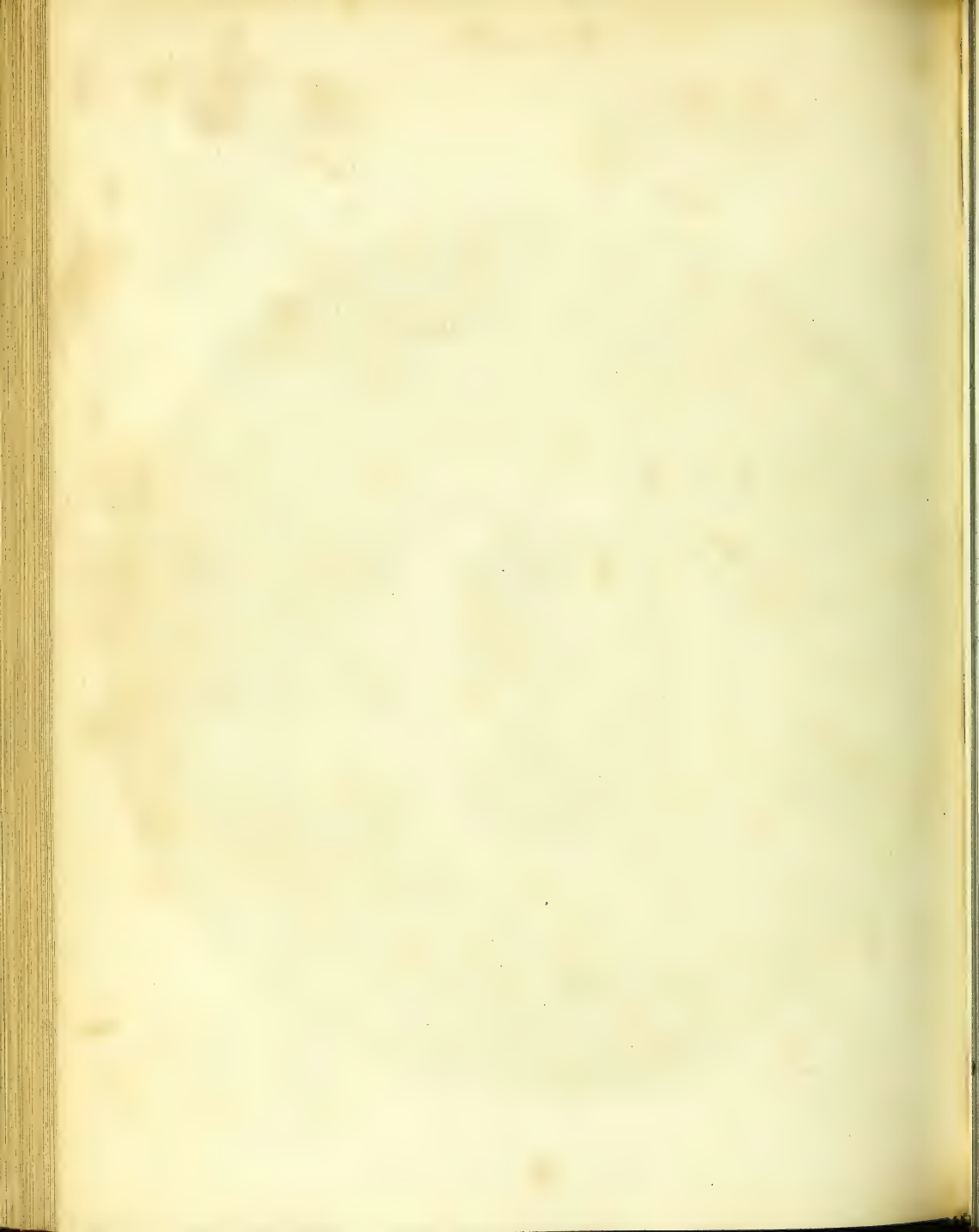
ASTRONOMY.

GENERAL VIEW OF THE SOLAR SYSTEM.
Fig. 9.



Proportional apparent magnitudes of
Sun as seen from the Primary Planets
Mercury. B Venus. C the Earth. D Mars.
E Jupiter. F Saturn. G Planet Herschel.
H Planet Herschel.
I Ceres or Piazzi.

Proportional magnitudes of the Primary
Planets compared with each other and with
the Sun represented by the Orbit of Saturn
in Fig. 9. h. Saturn. 2. Jupiter. H. Herschel.
d. Mars. o. the Earth. 7. Venus. 7. Mercury.
P Ceres or Piazzi.



ASCENSION. &c

Fig. 15.

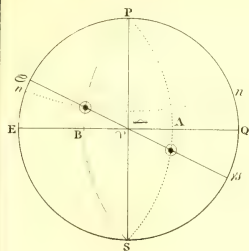


Fig. 16.

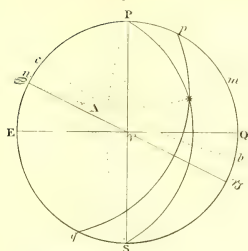
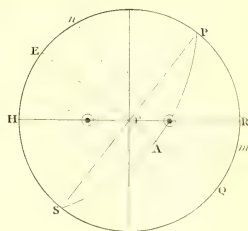


Fig. 17.



Armillary Sphere.

AXIS.

Fig. 18.

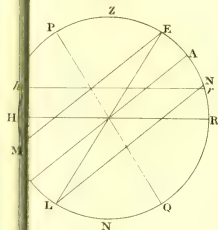


Fig. 14.



AXIS.

Fig. 10

Fig. 20.

Azimuth.

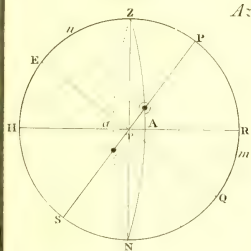
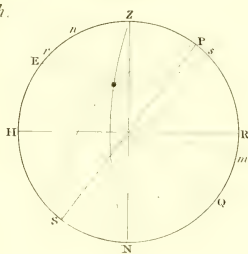
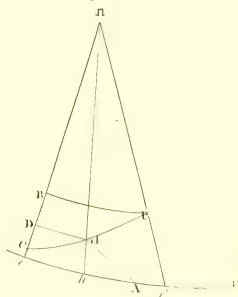


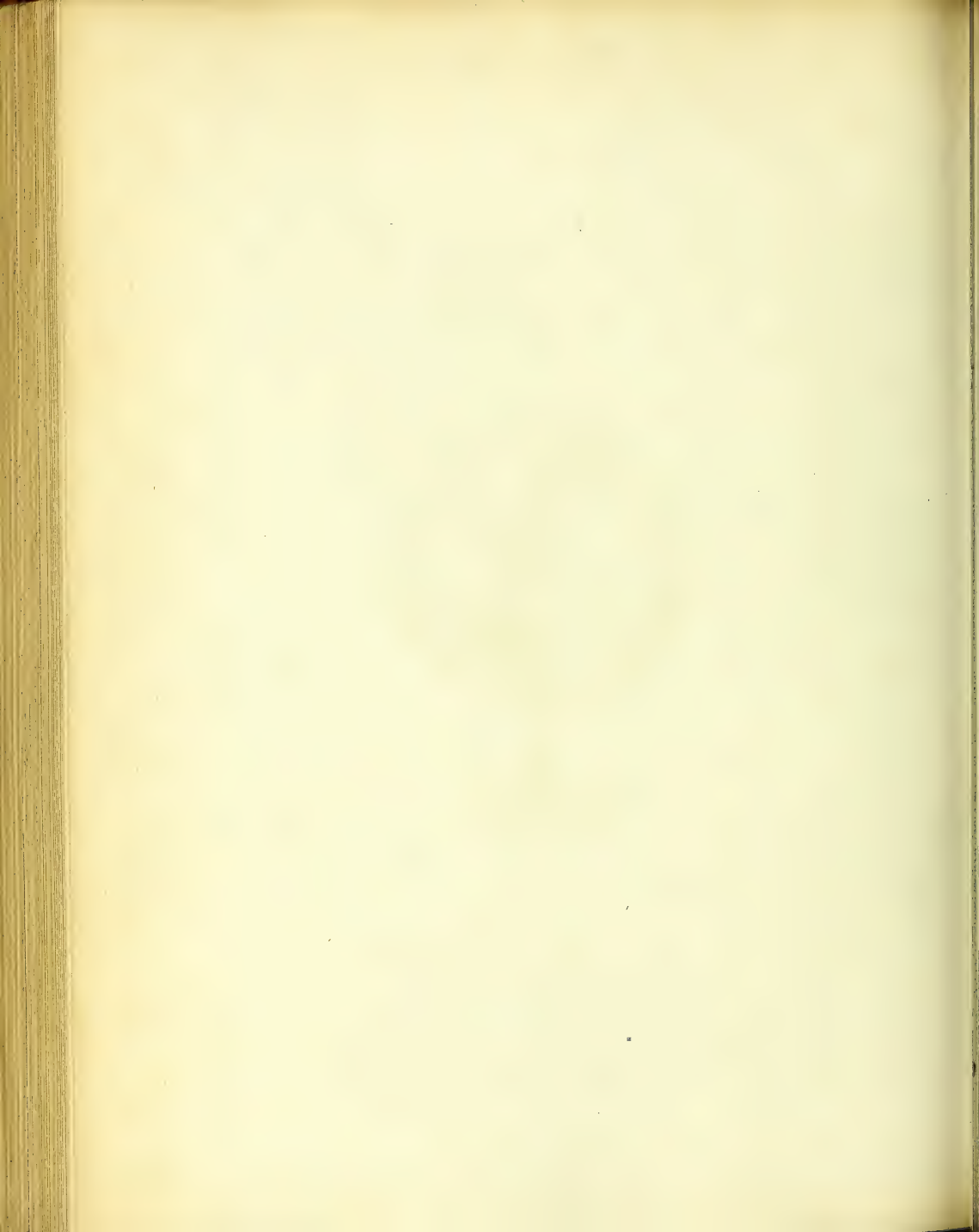
Fig. 21.



Chronology.

Fig. 22.





COMET

Fig. 23.

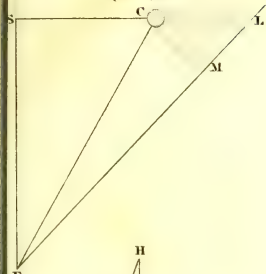


Fig. 24.

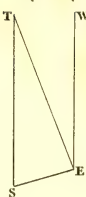


Fig. 25.

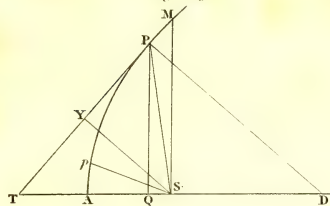


Fig. 26.

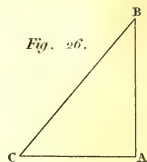


Fig. 27.

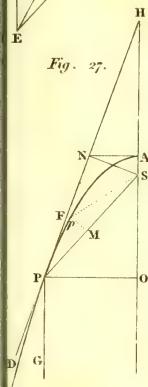


Fig. 28.

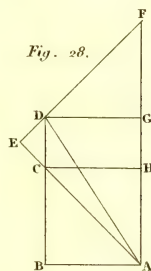


Fig. 29.

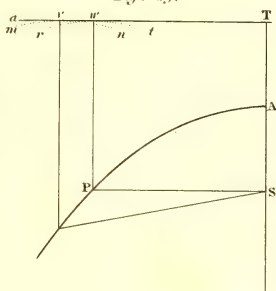


Fig. 30.

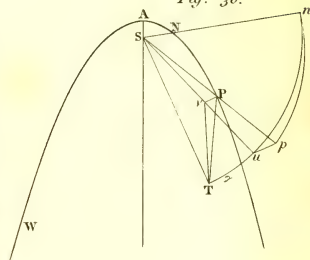


Fig. 31.

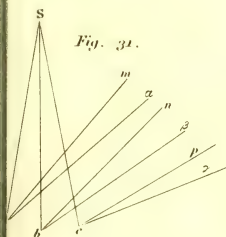


Fig. 32.

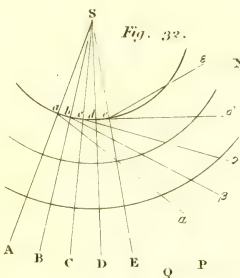


Fig. 33.

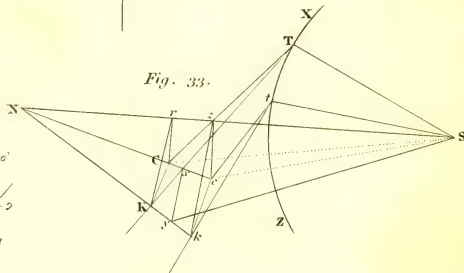


Fig. 35.

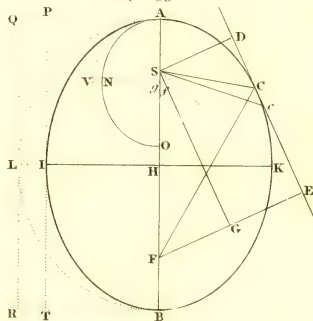
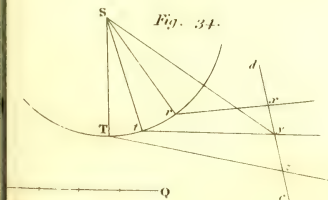
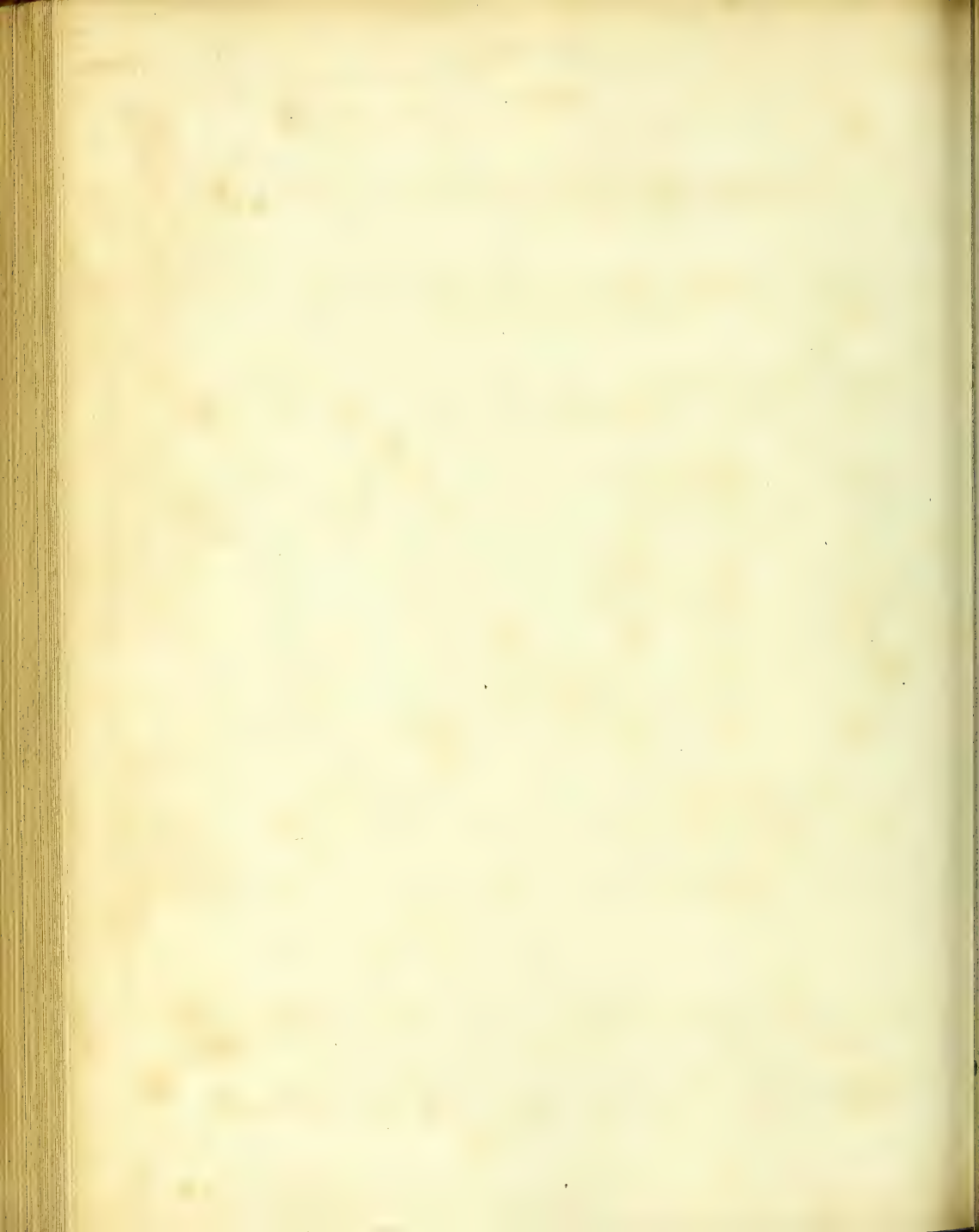


Fig. 36.

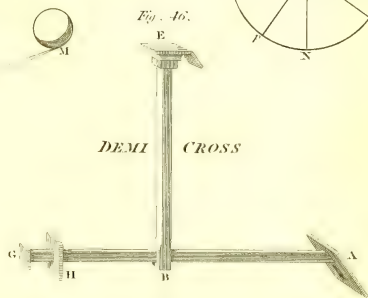
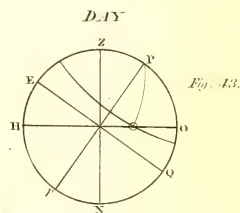
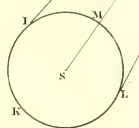
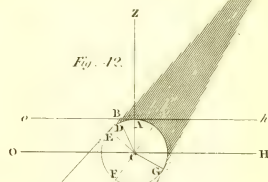
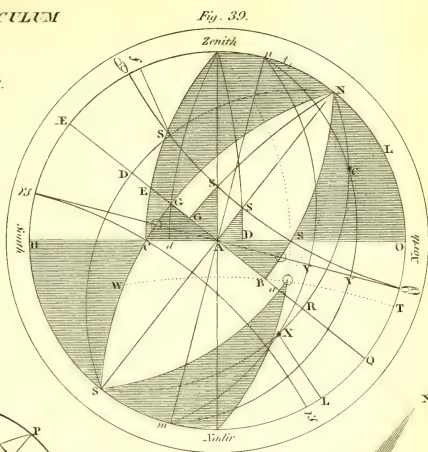
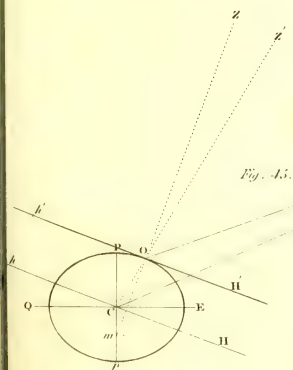
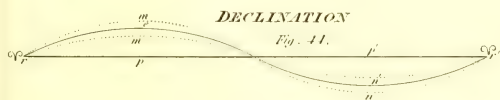
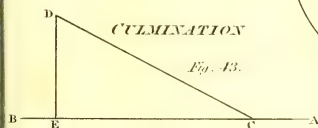
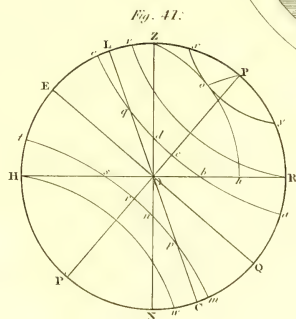
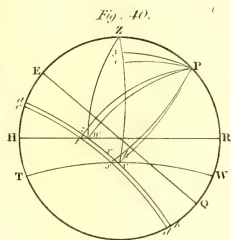
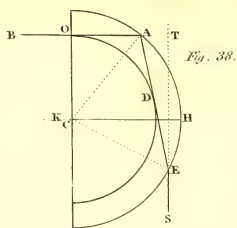
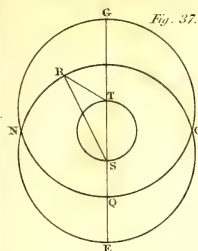


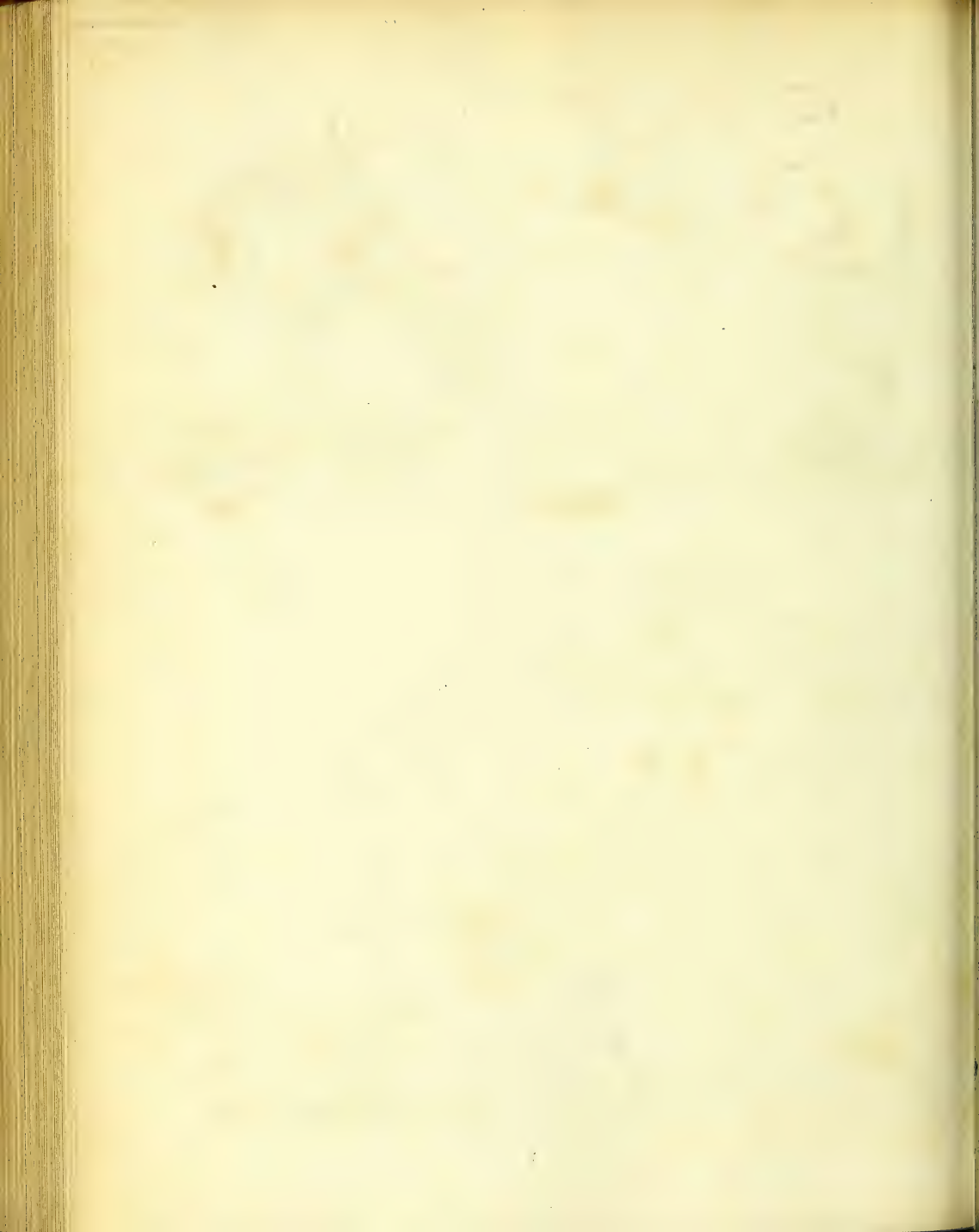
Fig. 34.

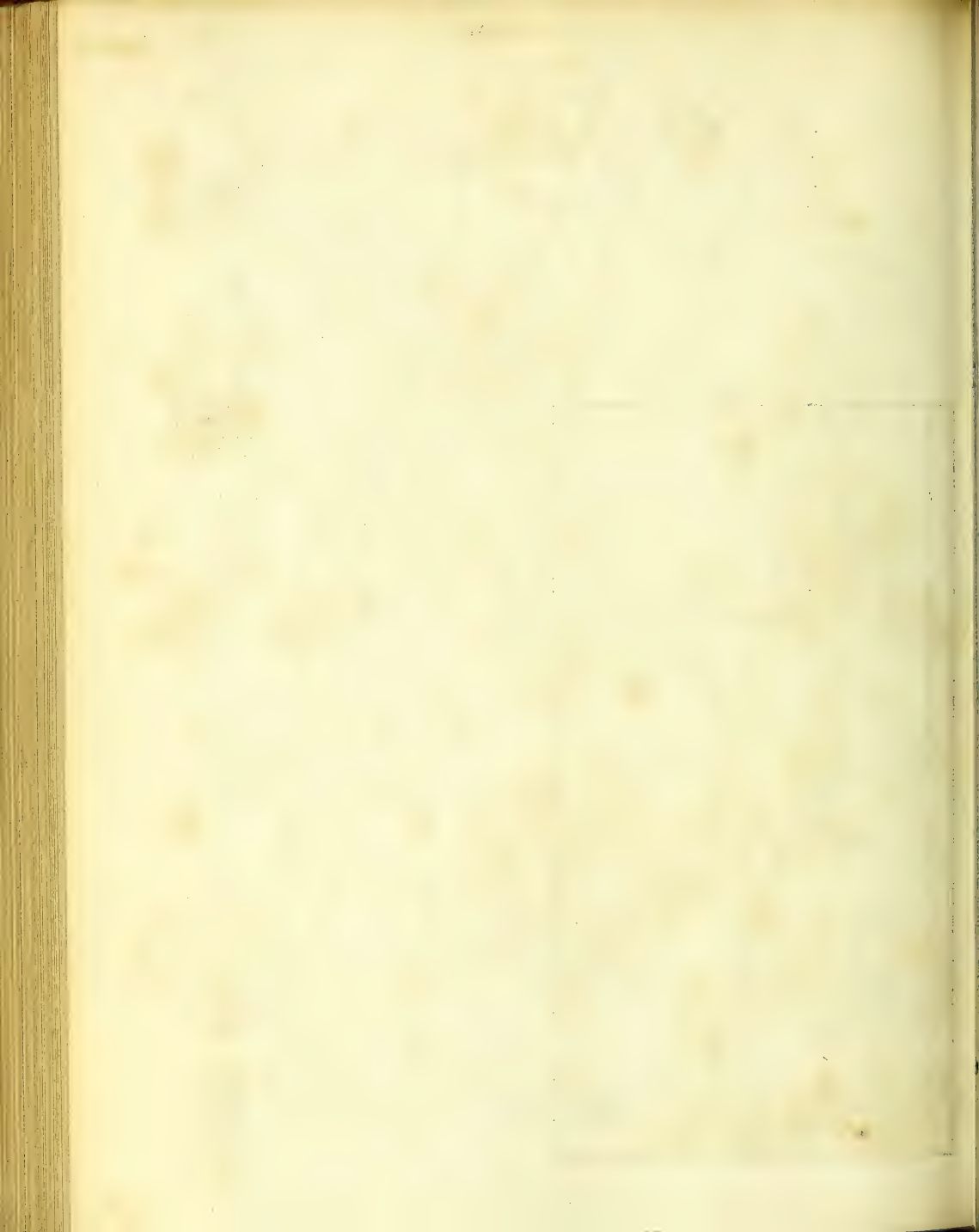




COMMUTATION







DEGREE.

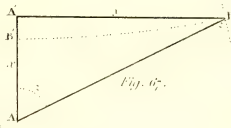
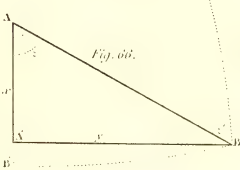
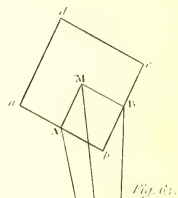
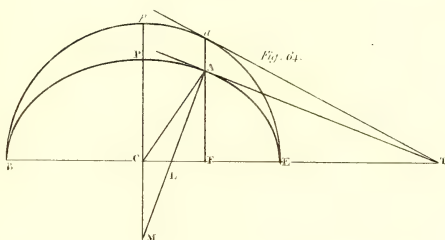
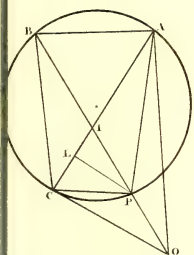
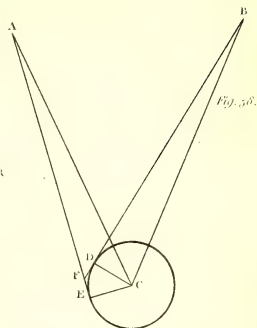
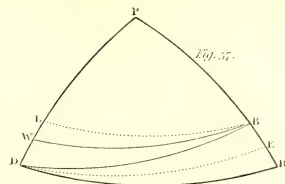
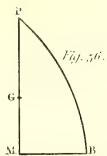
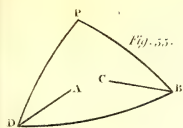


Fig. 64.

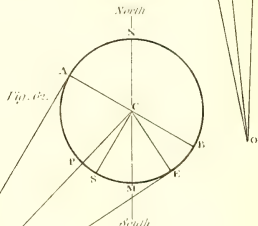
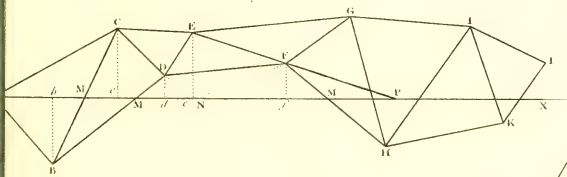
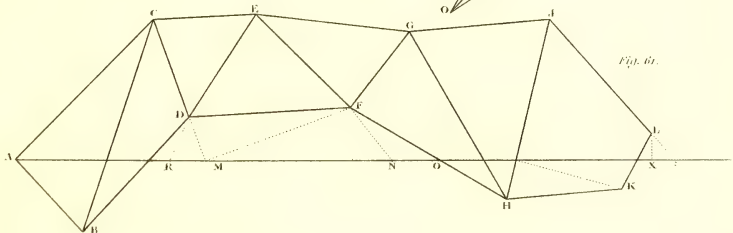
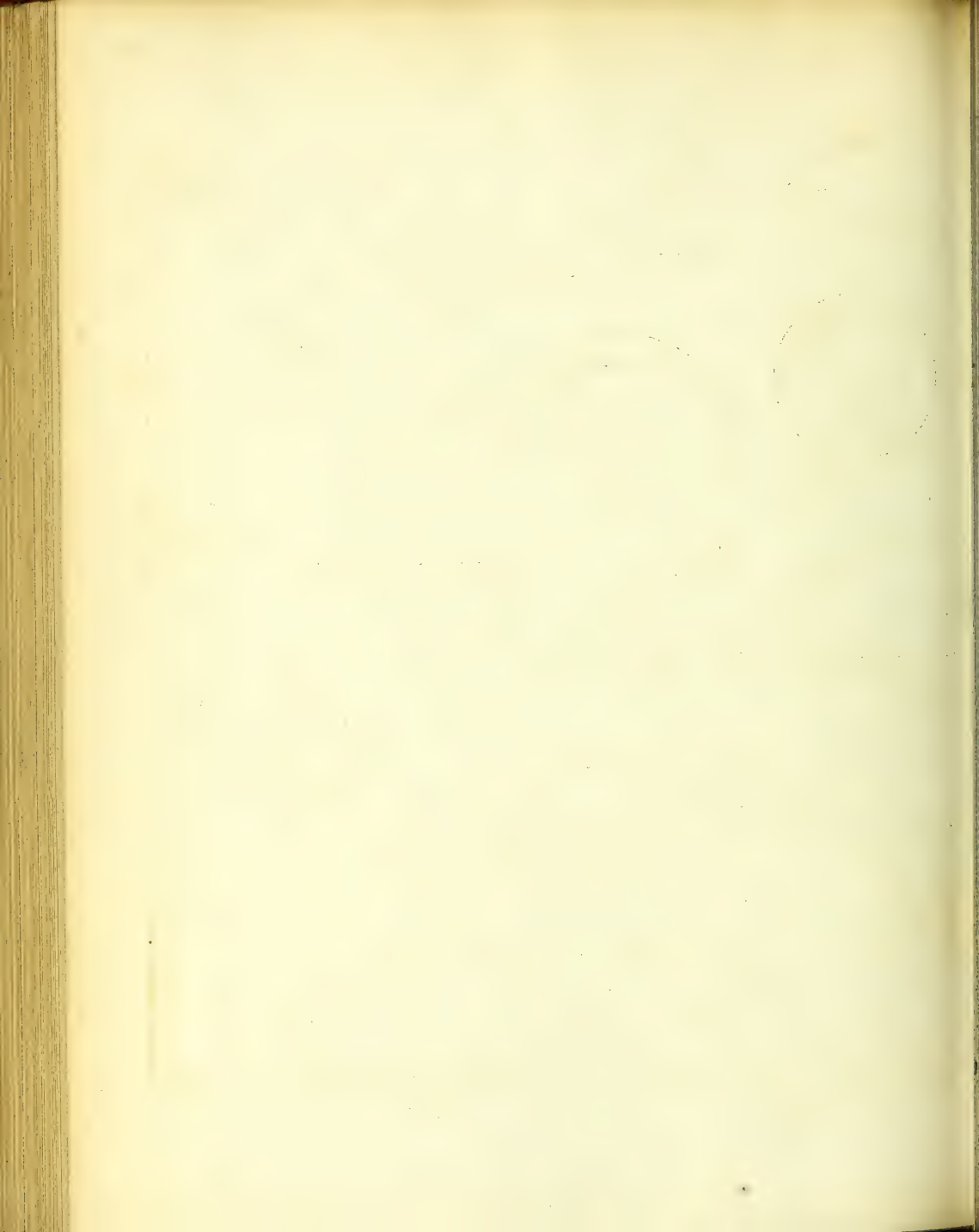
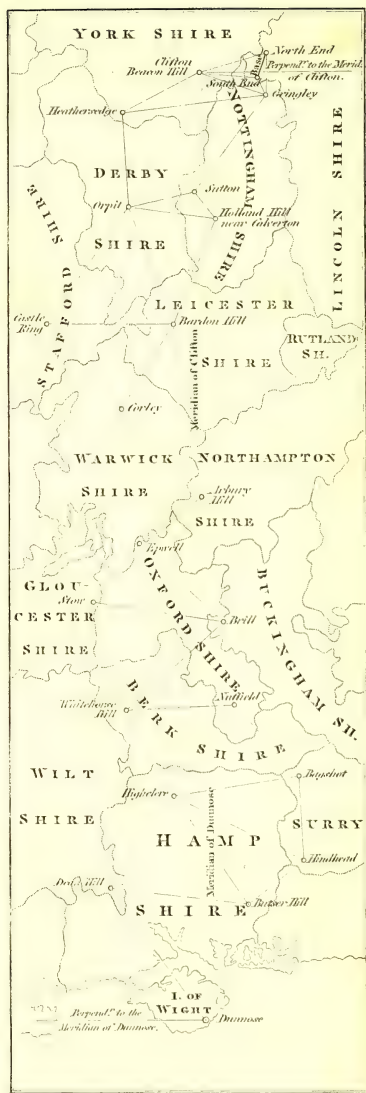
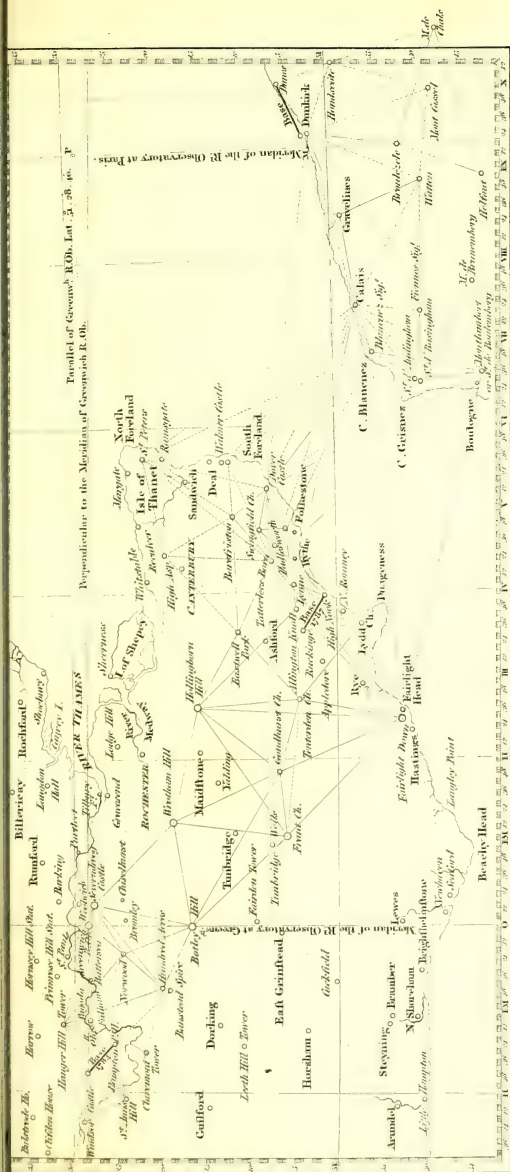
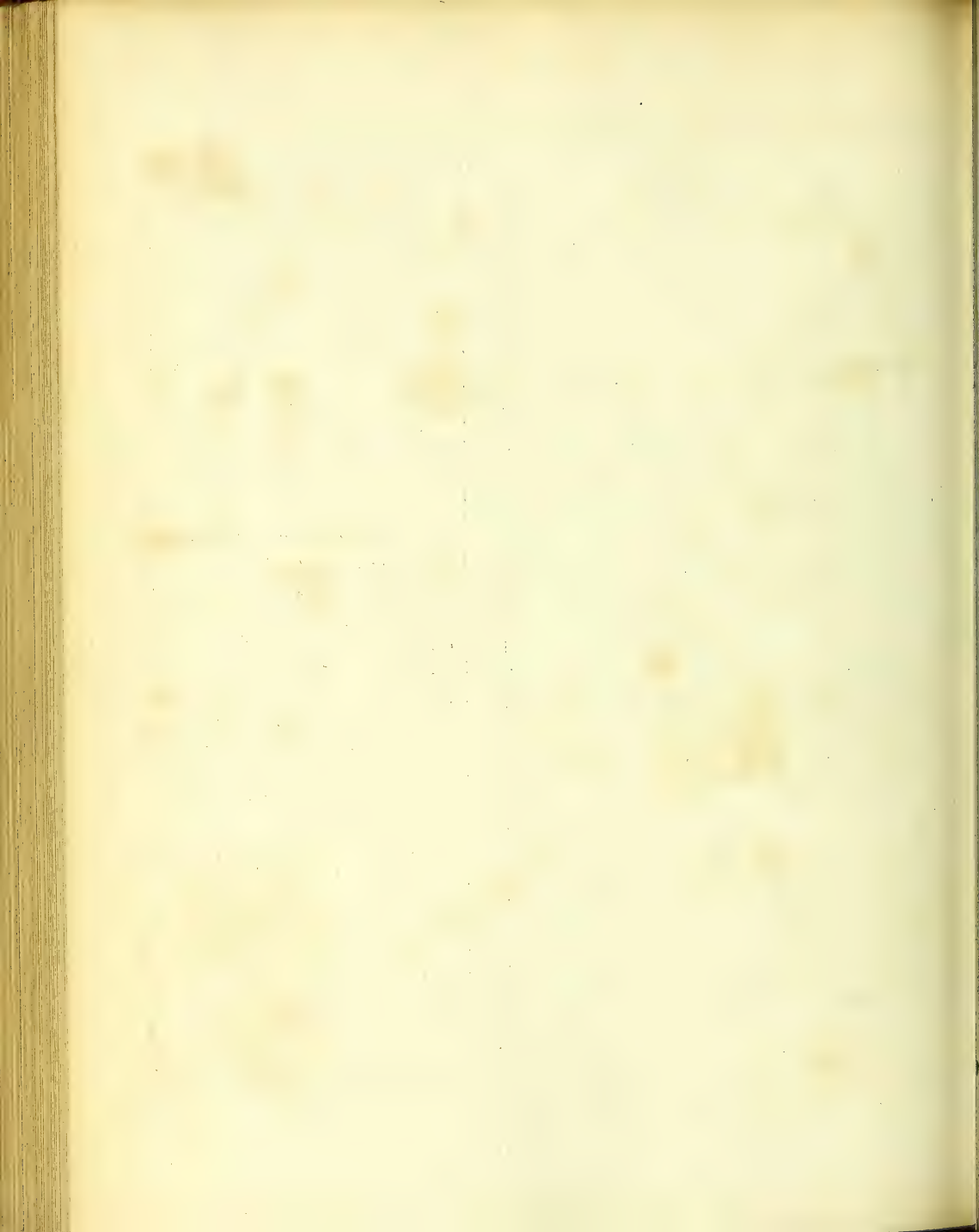


Fig. 66.

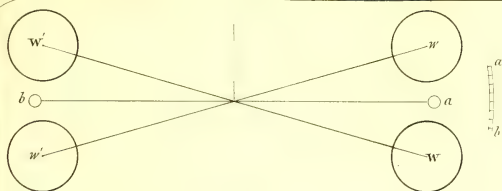




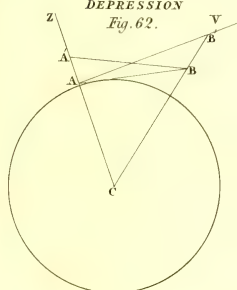




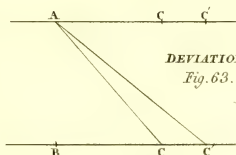
DENSITY
Fig. 60.



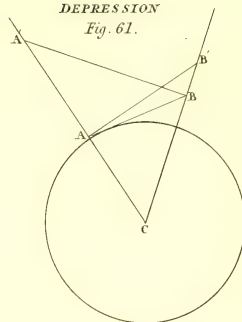
DEPRESSION
Fig. 62.



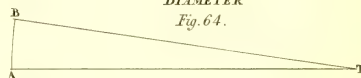
DEVIATION
Fig. 63.



DEPRESSION
Fig. 61.

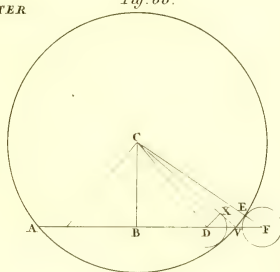
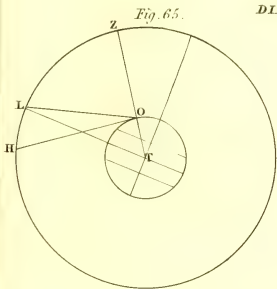


DIAMETER
Fig. 64.

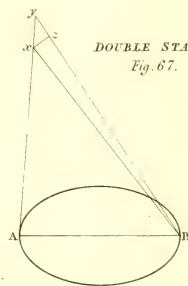


DIAMETER

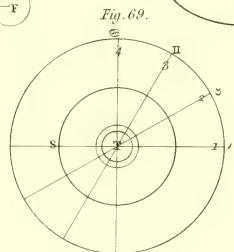
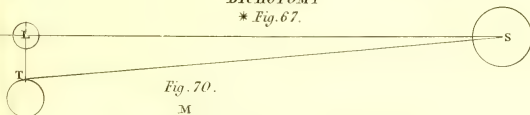
Fig. 66.



DOUBLE STAR
Fig. 67.



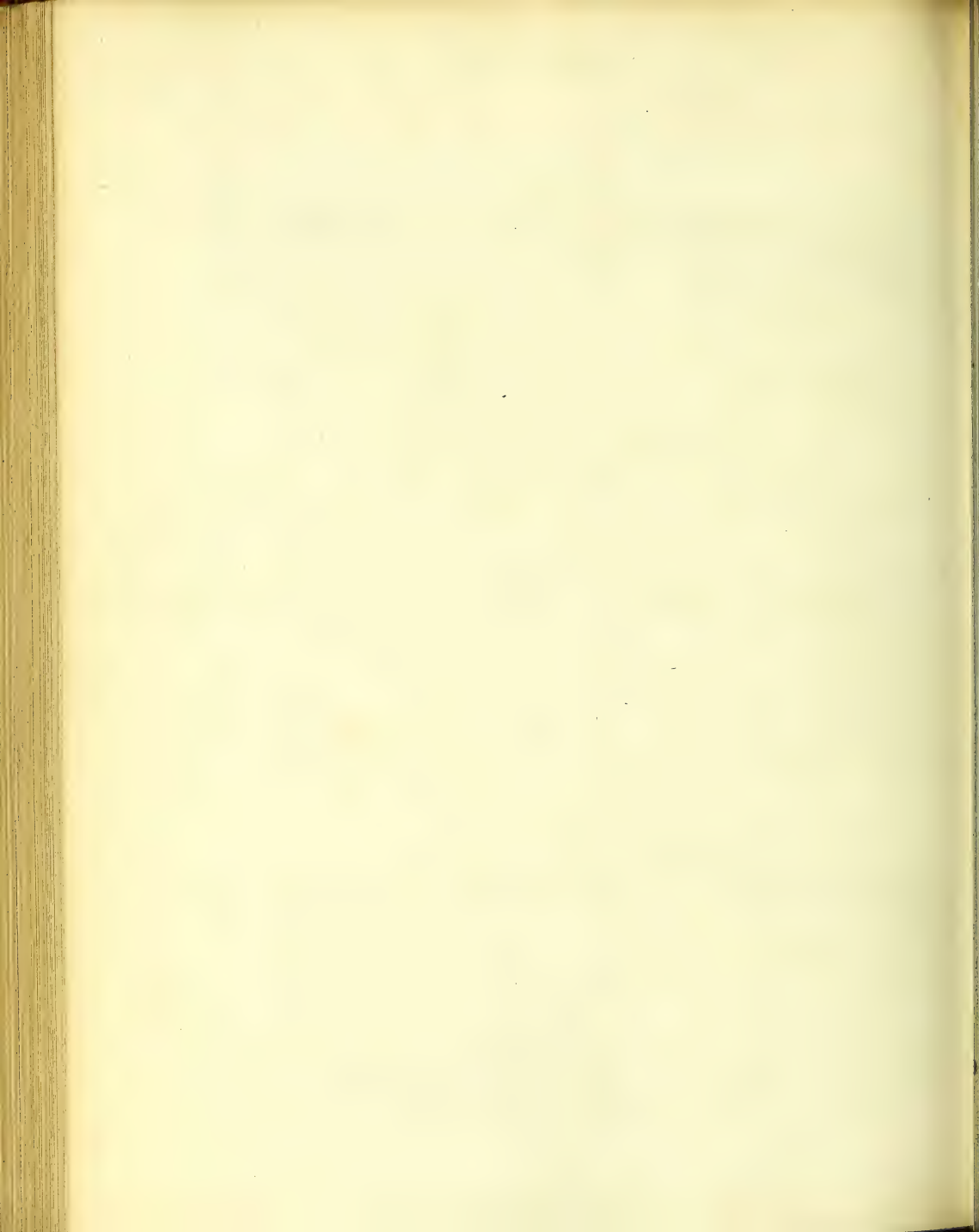
DICHOTOMY
* Fig. 67.



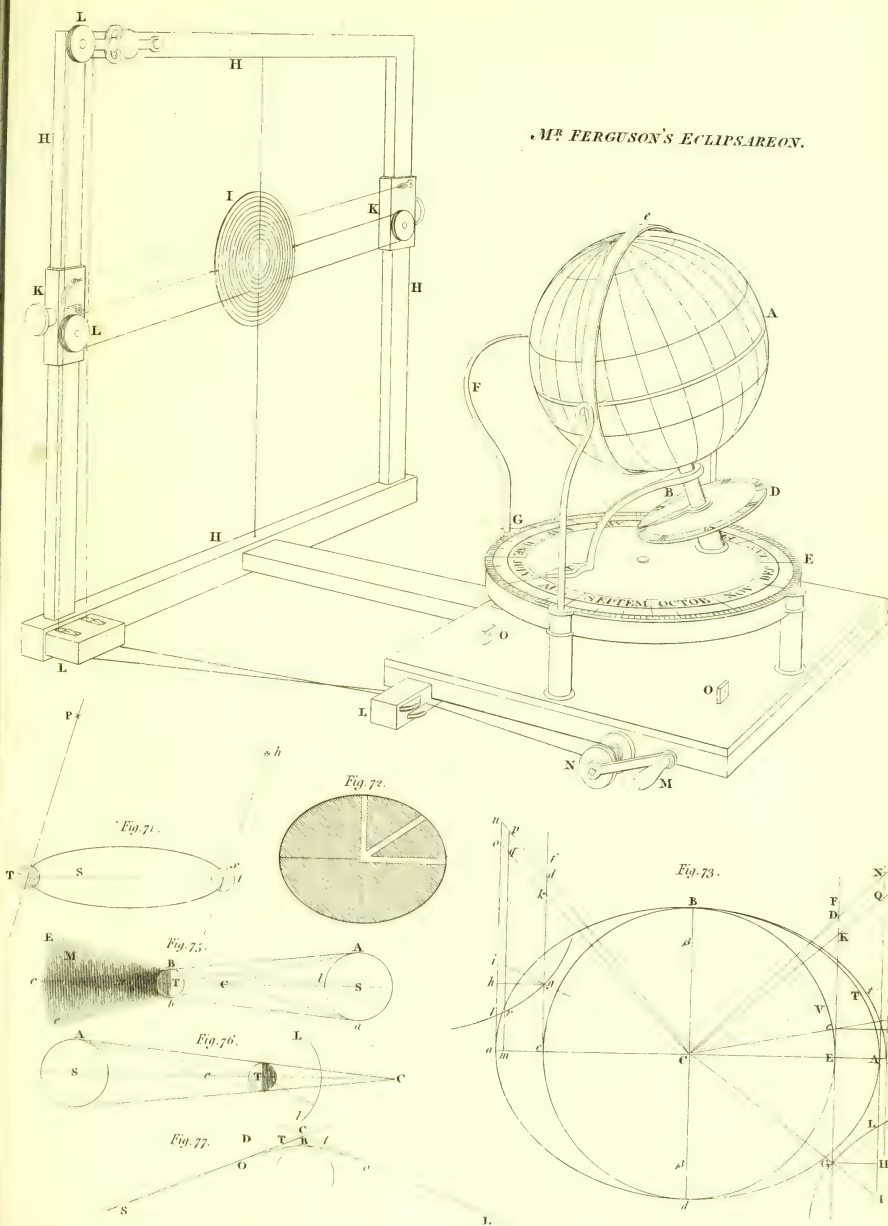
EARTH

Fig. 68.





MR FERGUSON'S ECLIPSEARCON.



ECLIPSE.

Fig. 79.

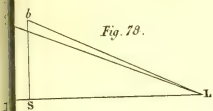


Fig. 79.

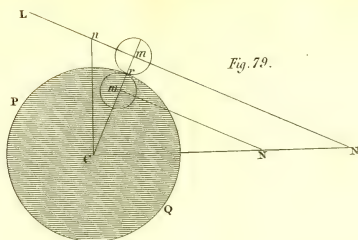


Fig. 82.

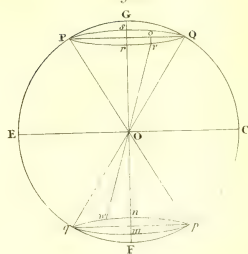


Fig. 80.

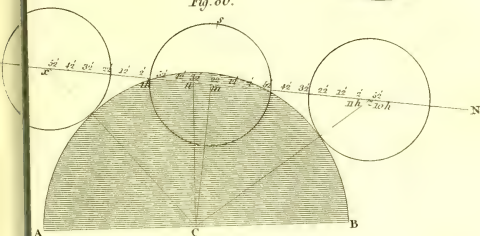


Fig. 87.

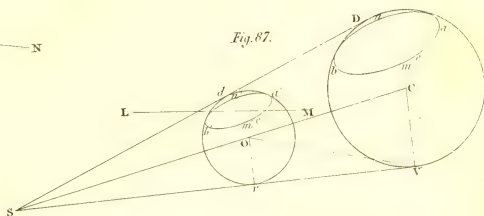


Fig. 81.

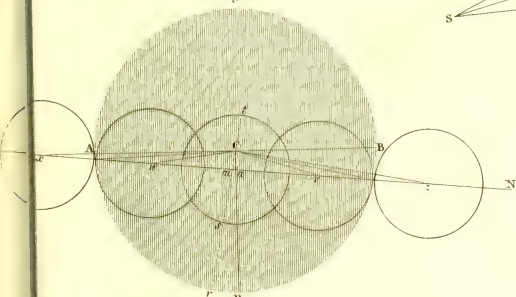


Fig. 84.

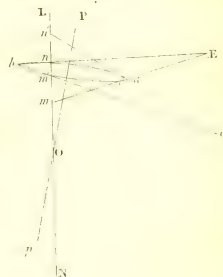


Fig. 83.

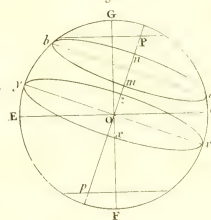


Fig. 86.

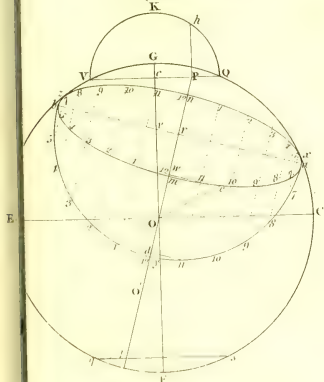


Fig. 89.

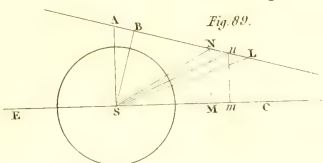


Fig. 85.

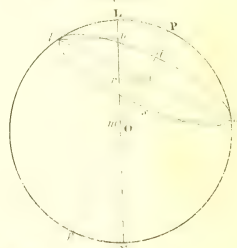
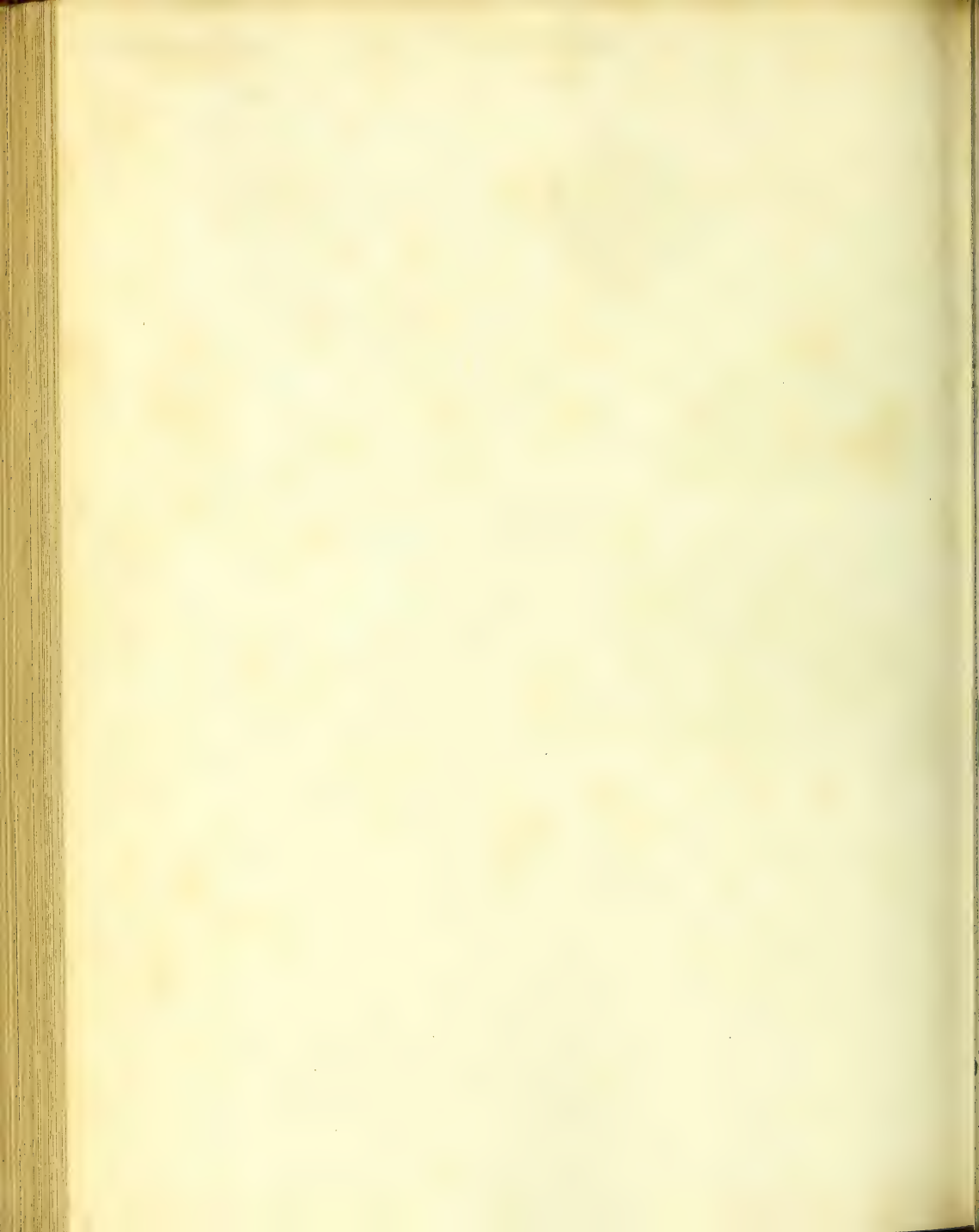
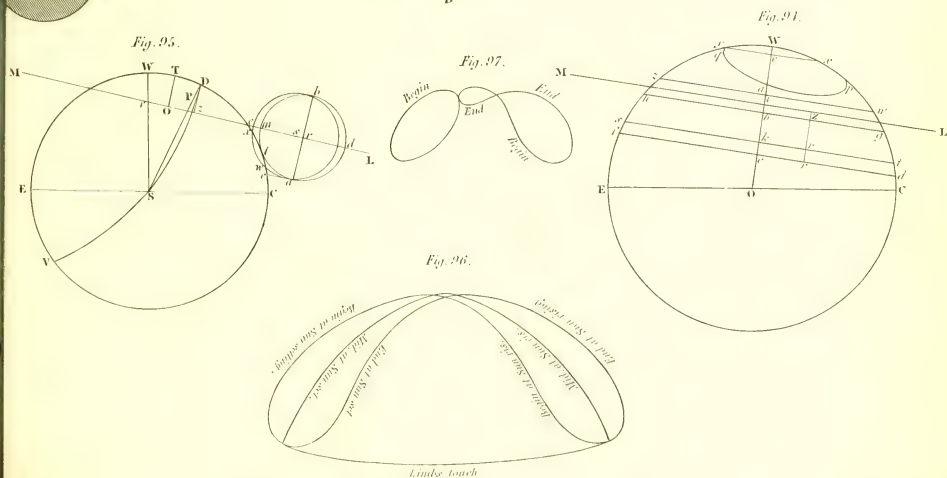
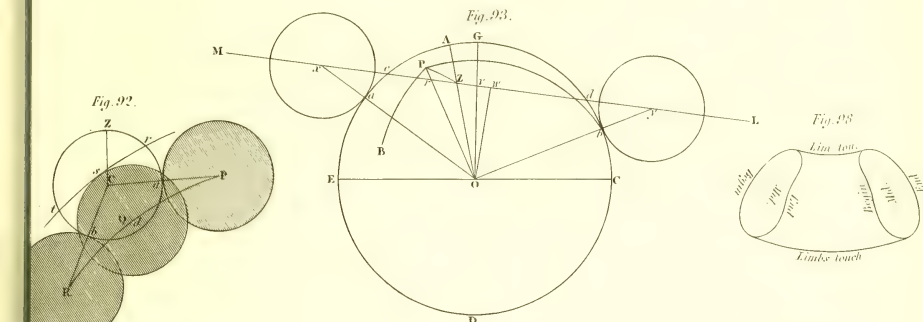
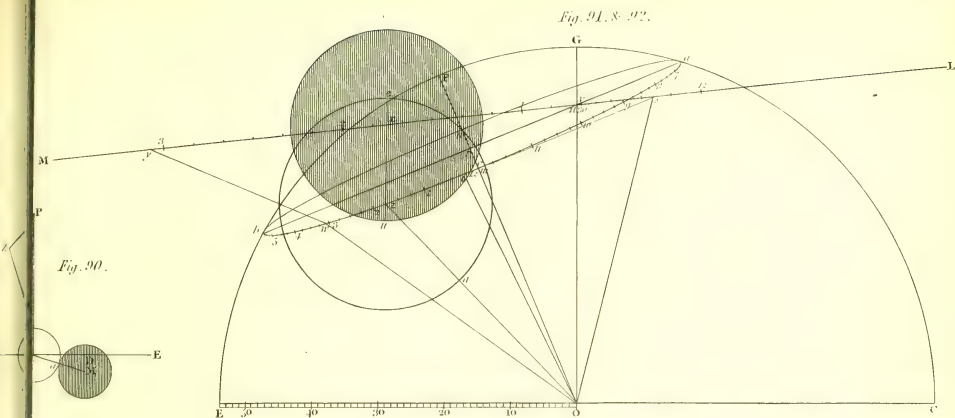


Fig. 88.







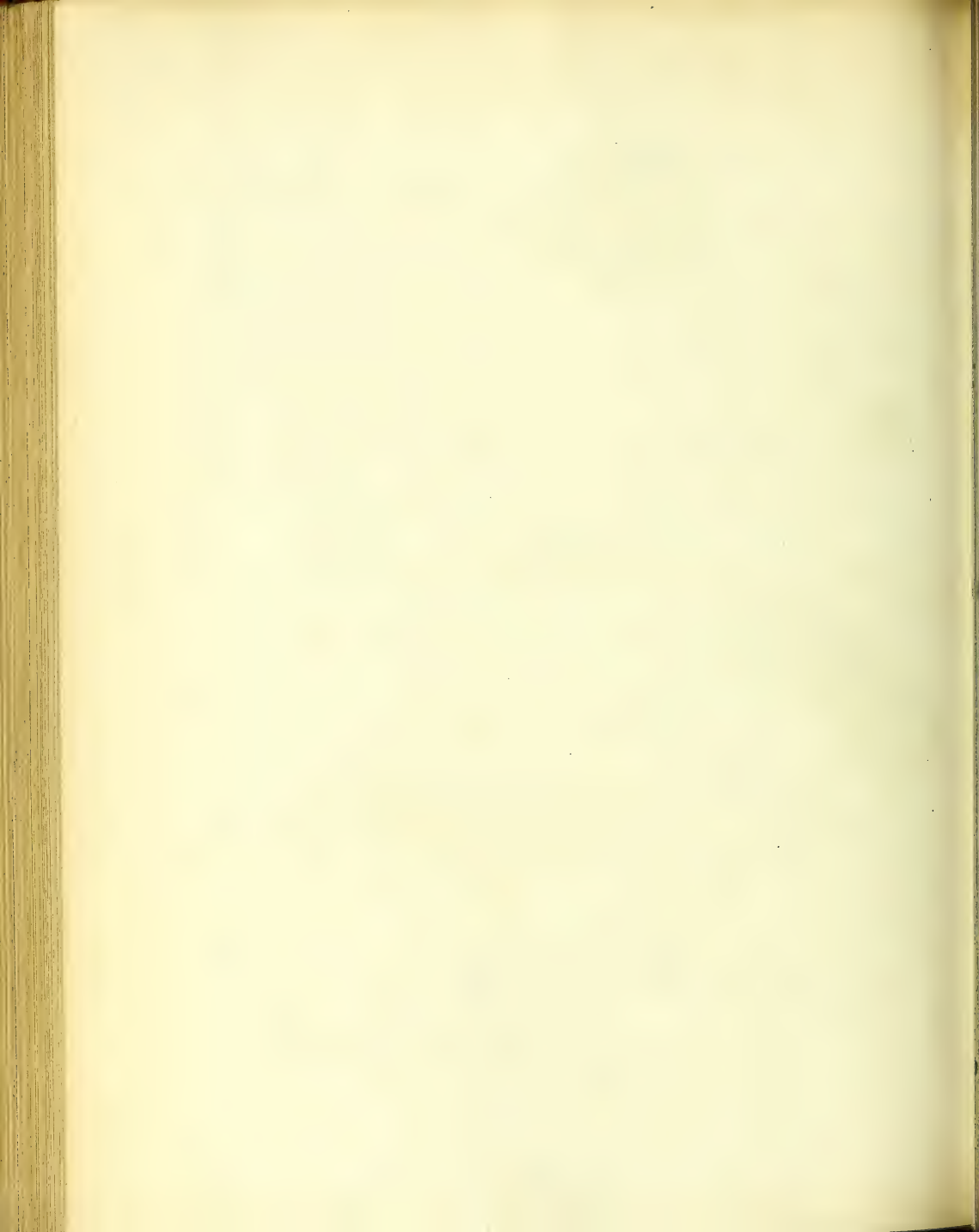


Fig. 99.
ECLIPSE

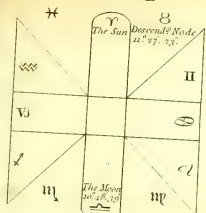


Fig. 105.
EPICYCLE

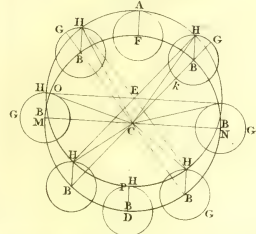


Fig. 101.
ECLIPTIC

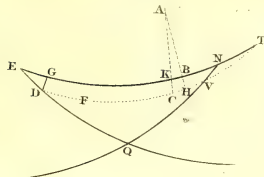


Fig. 103.
ELLIPTIC

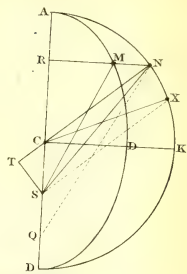
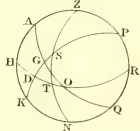


Fig. 102.
ELEVATION



EQUAL ALTITUDE

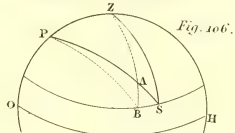
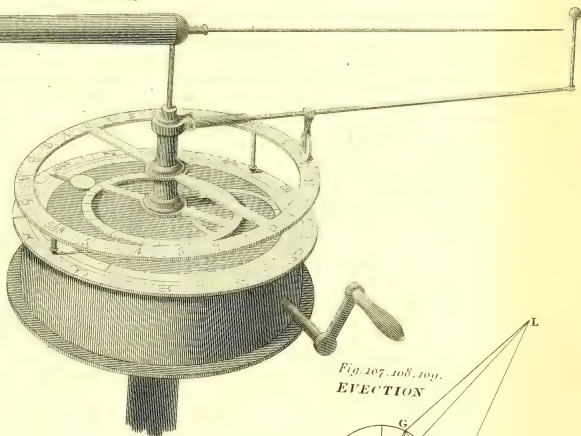


Fig. 100.
ECLIPSE



EQUATOR

Fig. 109.

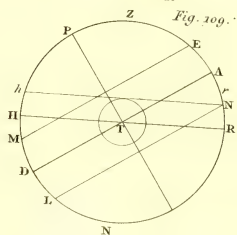
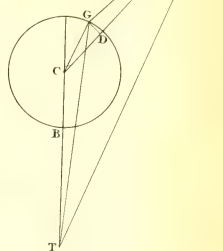


Fig. 107, 108, 109.
EVECTION





ASTRONOMY. ECLIPTIC.

PLATE VII.

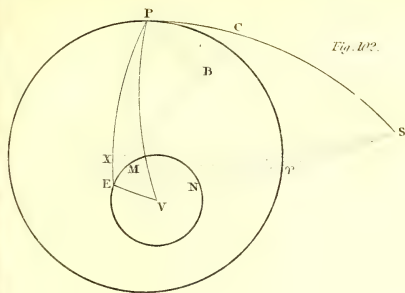


Fig. 102.

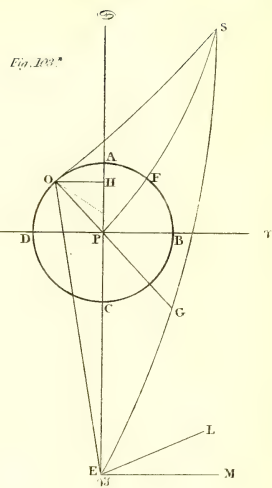


Fig. 103.

EQUINOX
Fig. 104.

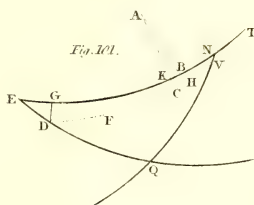
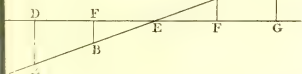
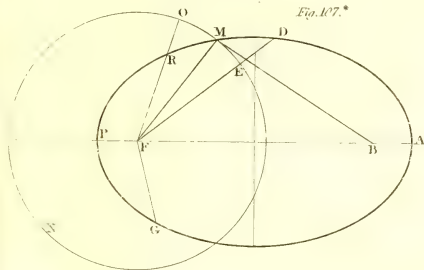


Fig. 105.

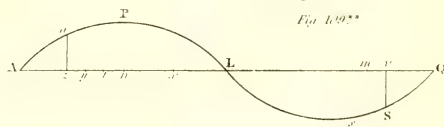
EQUATION OF CENTER.

Fig. 107.



EQUATION OF TIME.

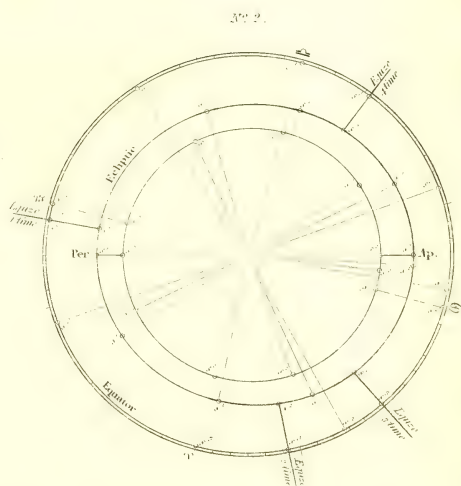
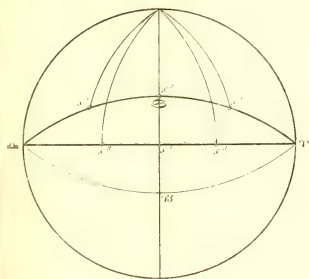
Fig. 109.



Nº 1.

EQUATION OF TIME.

Fig. 110.



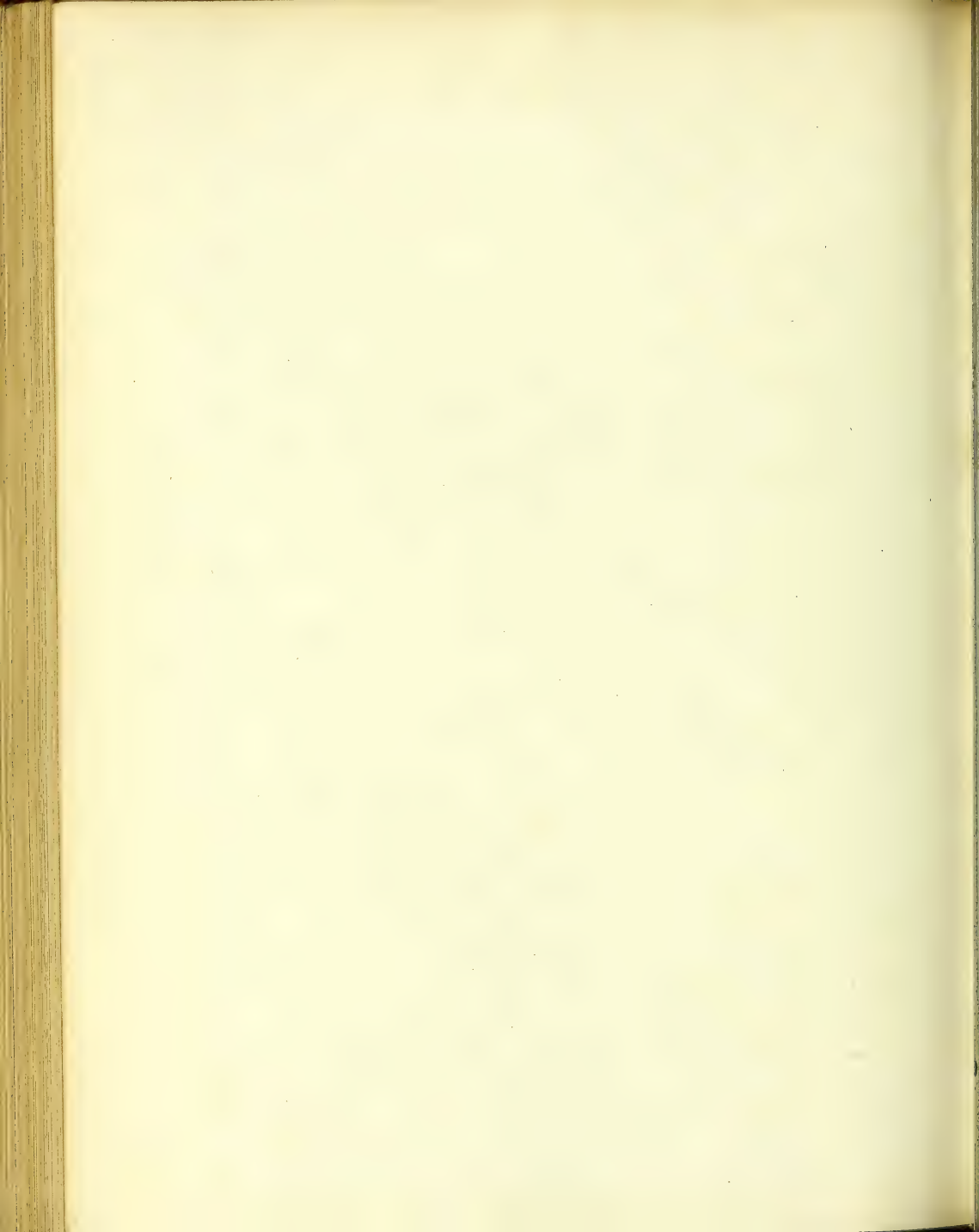


Fig. 112.

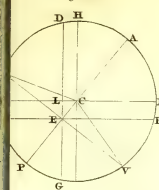
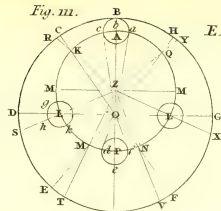


Fig. 111.



EXCENTRIC.

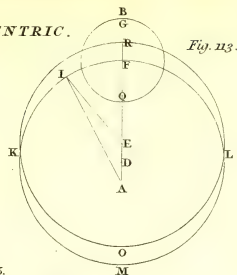


Fig. 110.

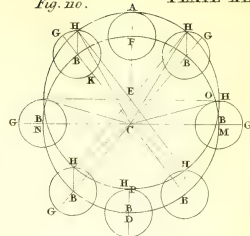


Fig. 5.

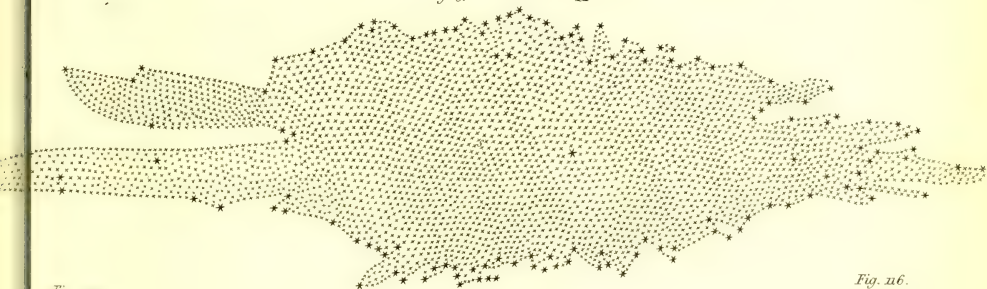
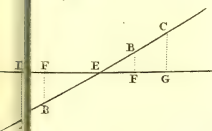


Fig. 110.



GALAXY

Fig. 114.

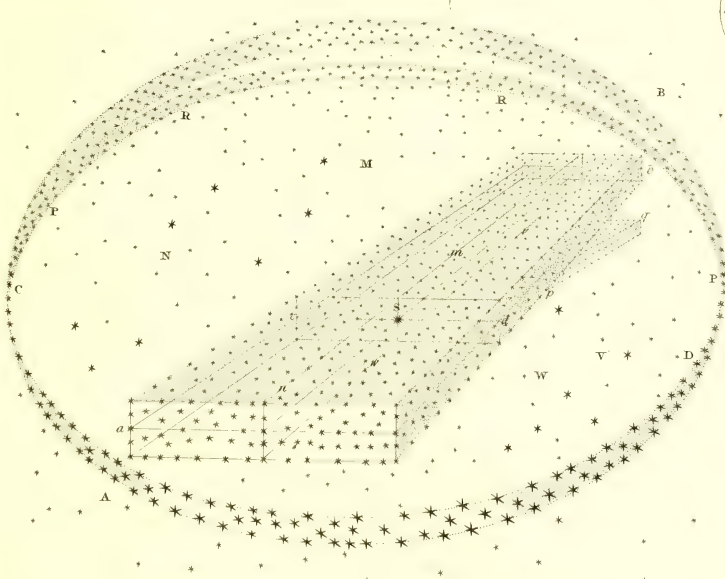
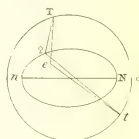
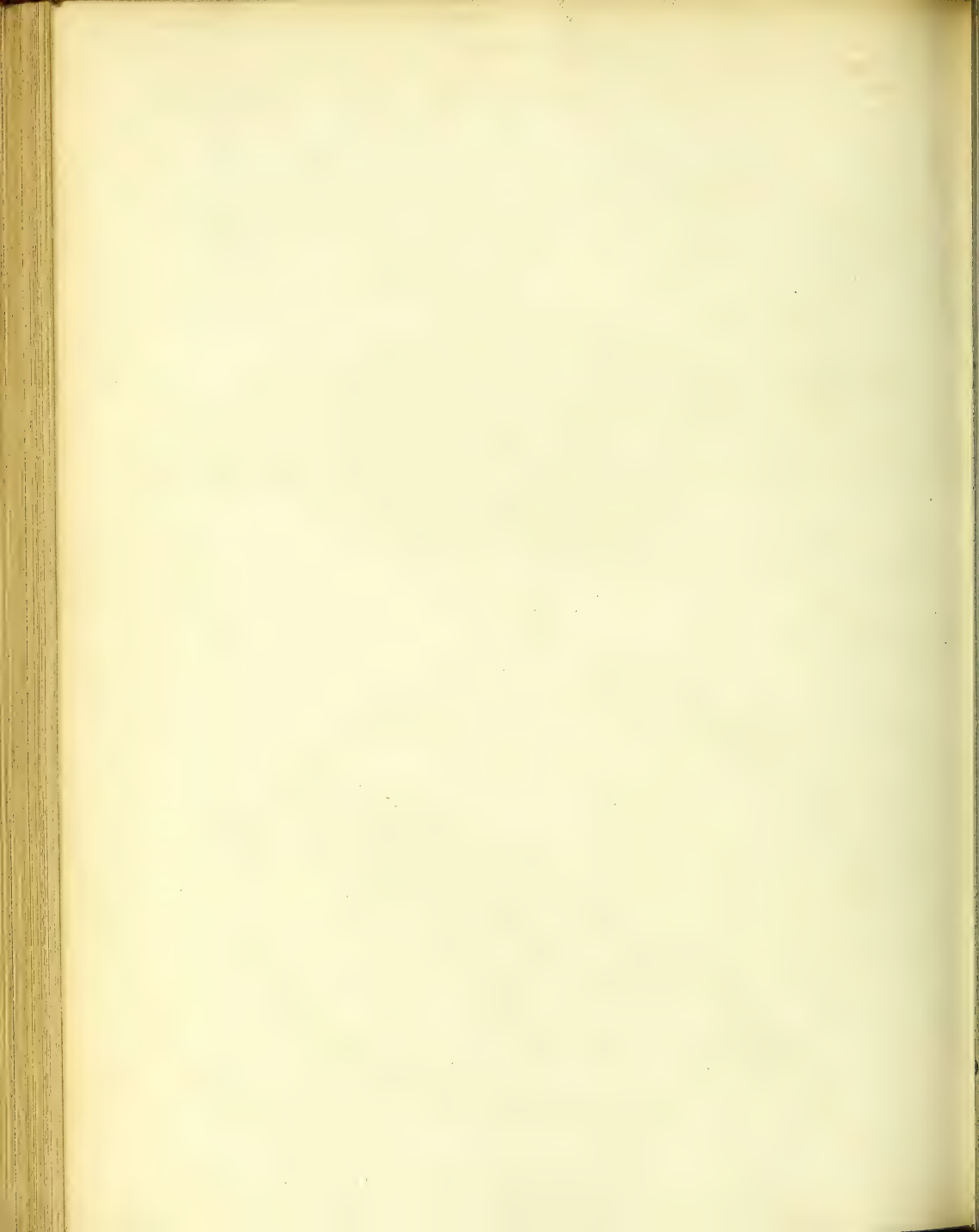


Fig. 116.

GEOCENTRIC.





GLOBE.

Fig. 117.

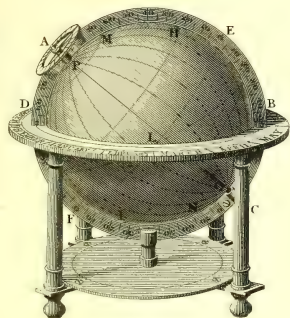


Fig. 118.

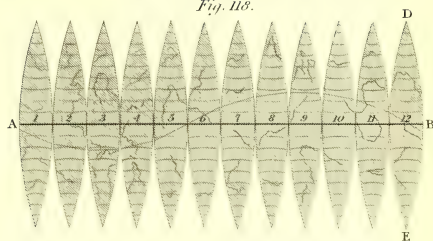


Fig. 119 & 121.



Fig. 120.

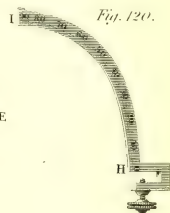
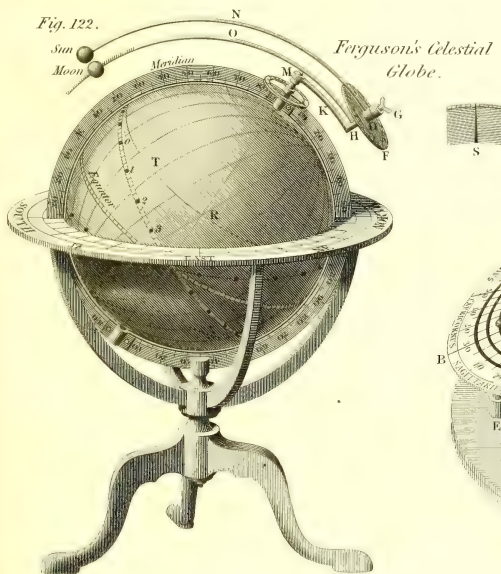
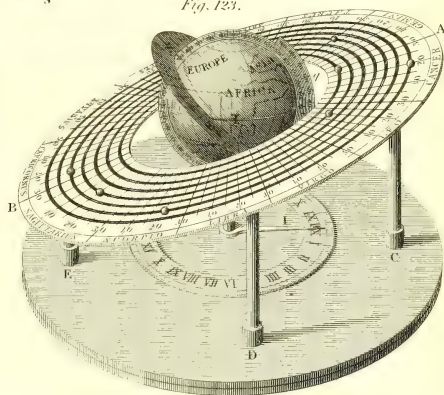


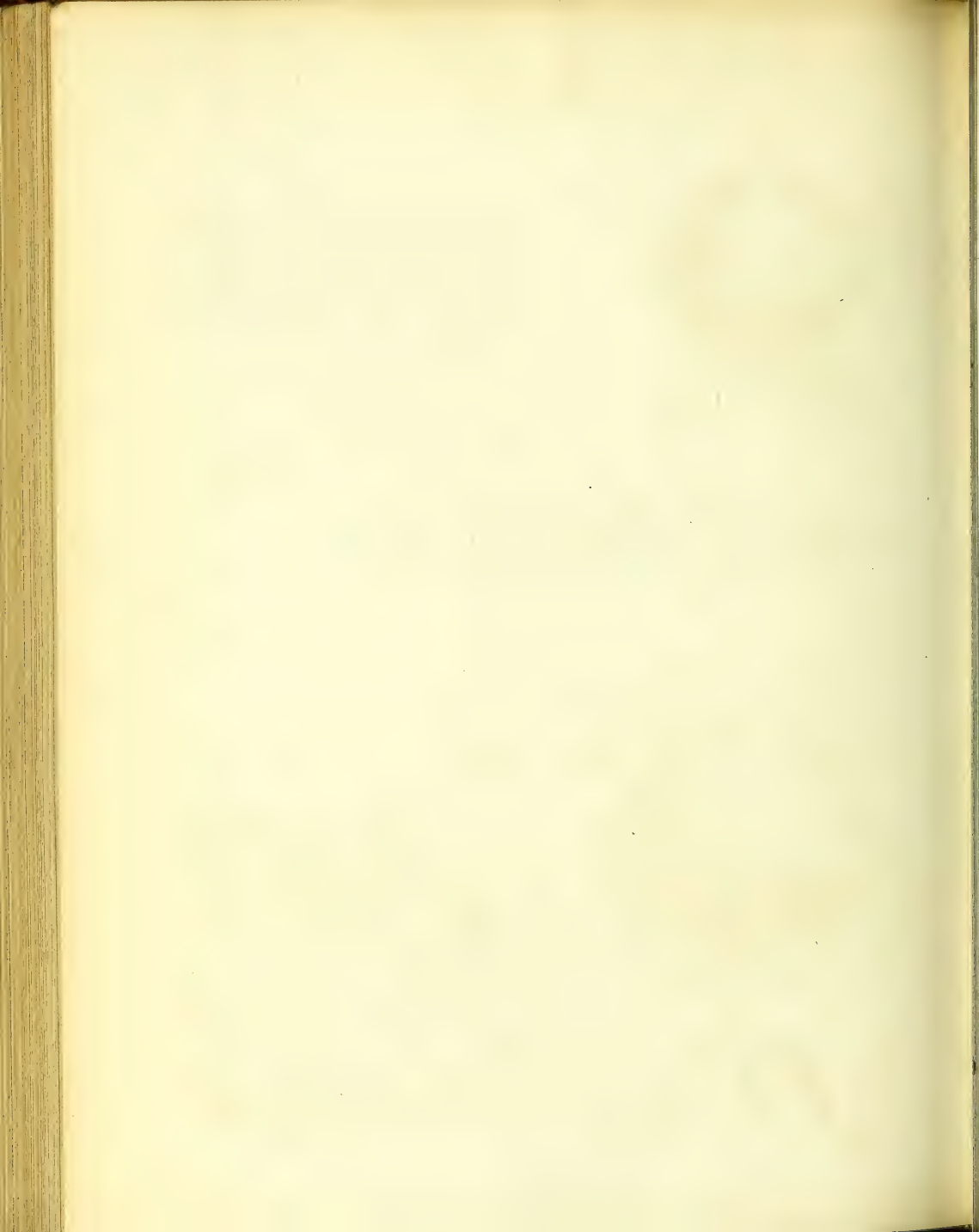
Fig. 122.



Ferguson's Planetary Globe.

Fig. 123.





ASTRONOMY. GRAVITATION.

PLATE XV.

Fig. 124.

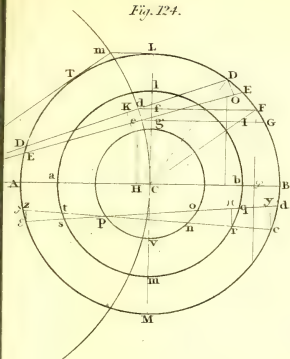


Fig. 125.

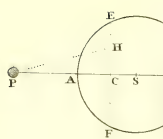


Fig. 127.

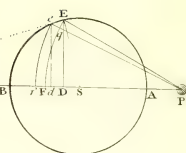


Fig. 126.

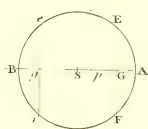


Fig. 128.

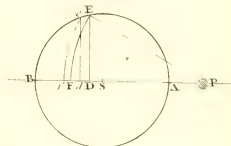


Fig. 130.

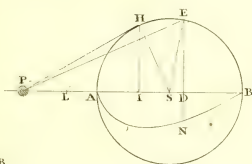


Fig. 129.

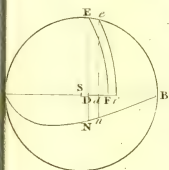


Fig. 131.



Fig. 132.

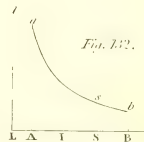


Fig. 134.

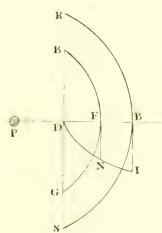


Fig. 133.

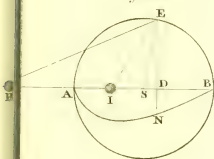


Fig. 135.

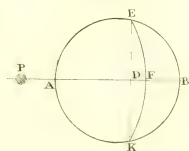


Fig. 136.

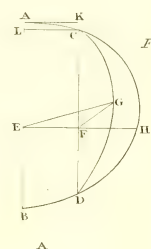


Fig. 136.

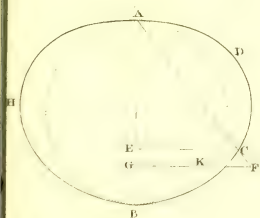


Fig. 137.

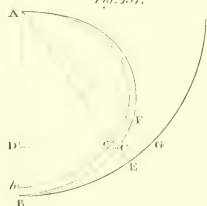
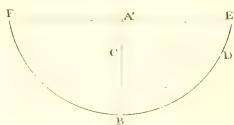
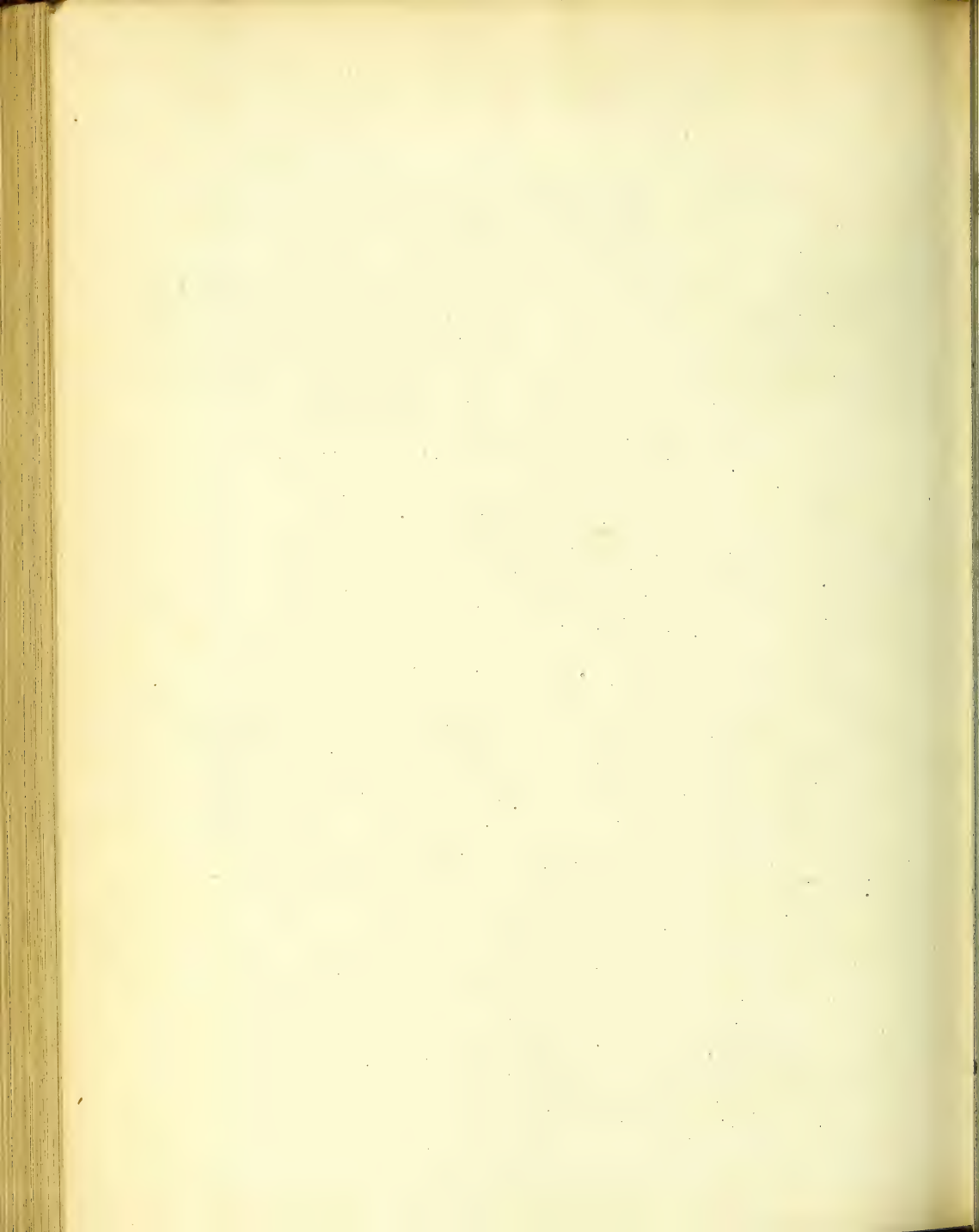
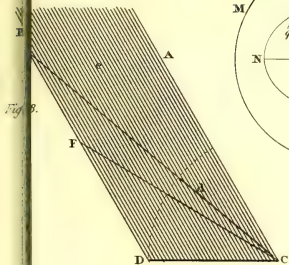


Fig. 137.





HEAT.



HELIOCENTRIC.
Latitude.

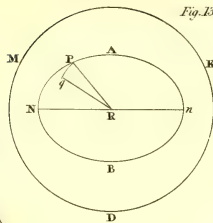


Fig. 139.

HEMISPHERE, HORIZON, TROPICS.

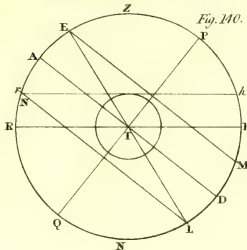


Fig. 140.

HORIZON.

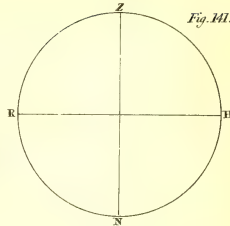


Fig. 141.

Fig. 143.

JUPITER.

Fig. 144.

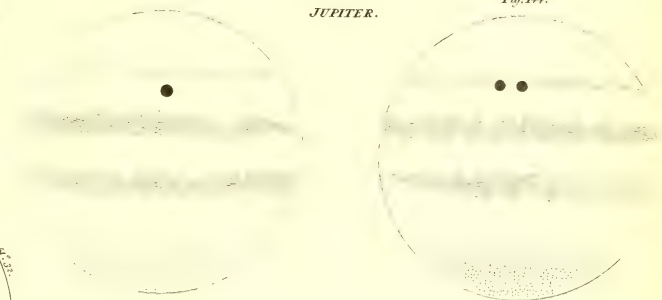
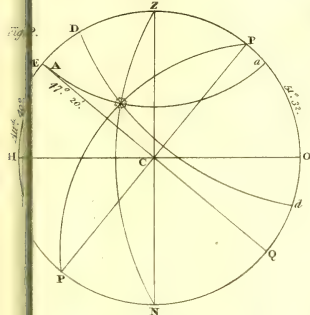


Fig. 145.

Fig. 146.

HOUR.



LATITUDE, REDUCTION.

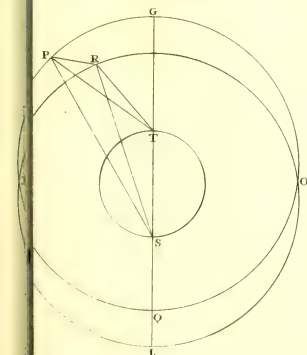


Fig. 148.

LATITUDE.

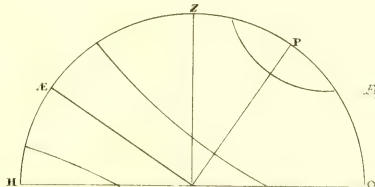
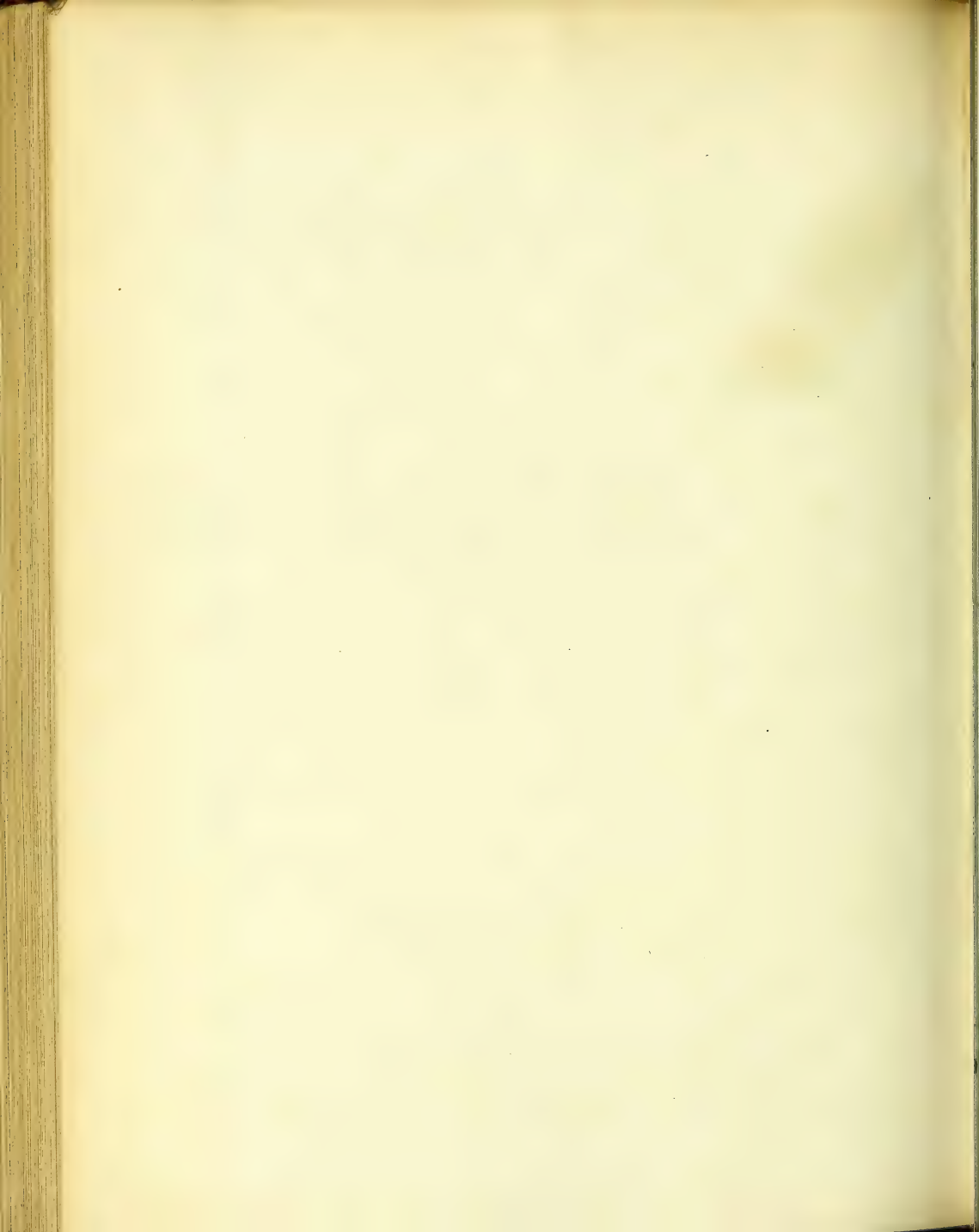


Fig. 147.



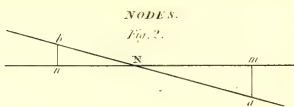
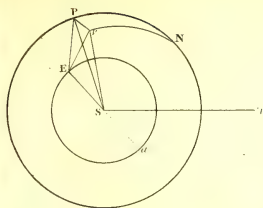
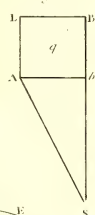


Fig. 1.

NODES.
Fig. 2.

PARACENTRIC.

Fig. 3.



PARALLAX.

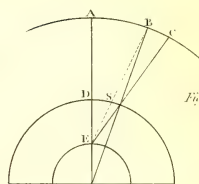


Fig. 4.

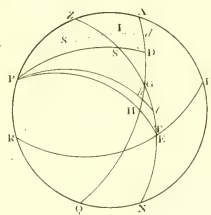
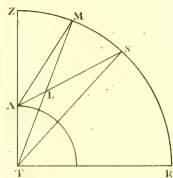


Fig. 7.

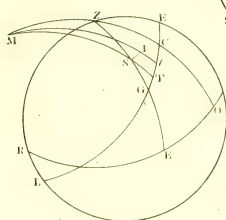


Fig. 8.



MOONS
PARALLAX.

Fig. 9.

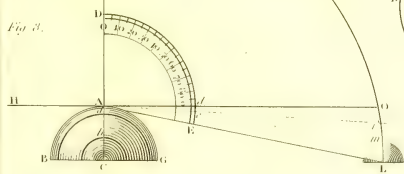


Fig. 10.

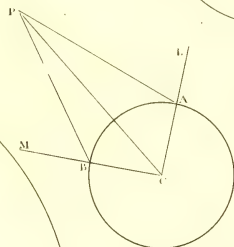


Fig. 11.

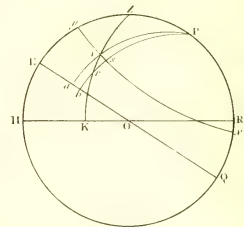


Fig. 12.

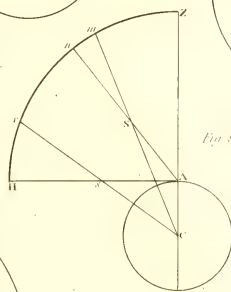


Fig. 13.

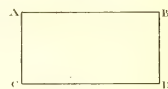
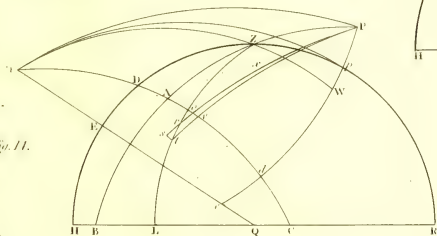
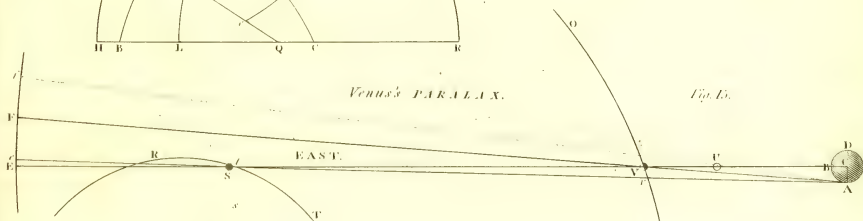


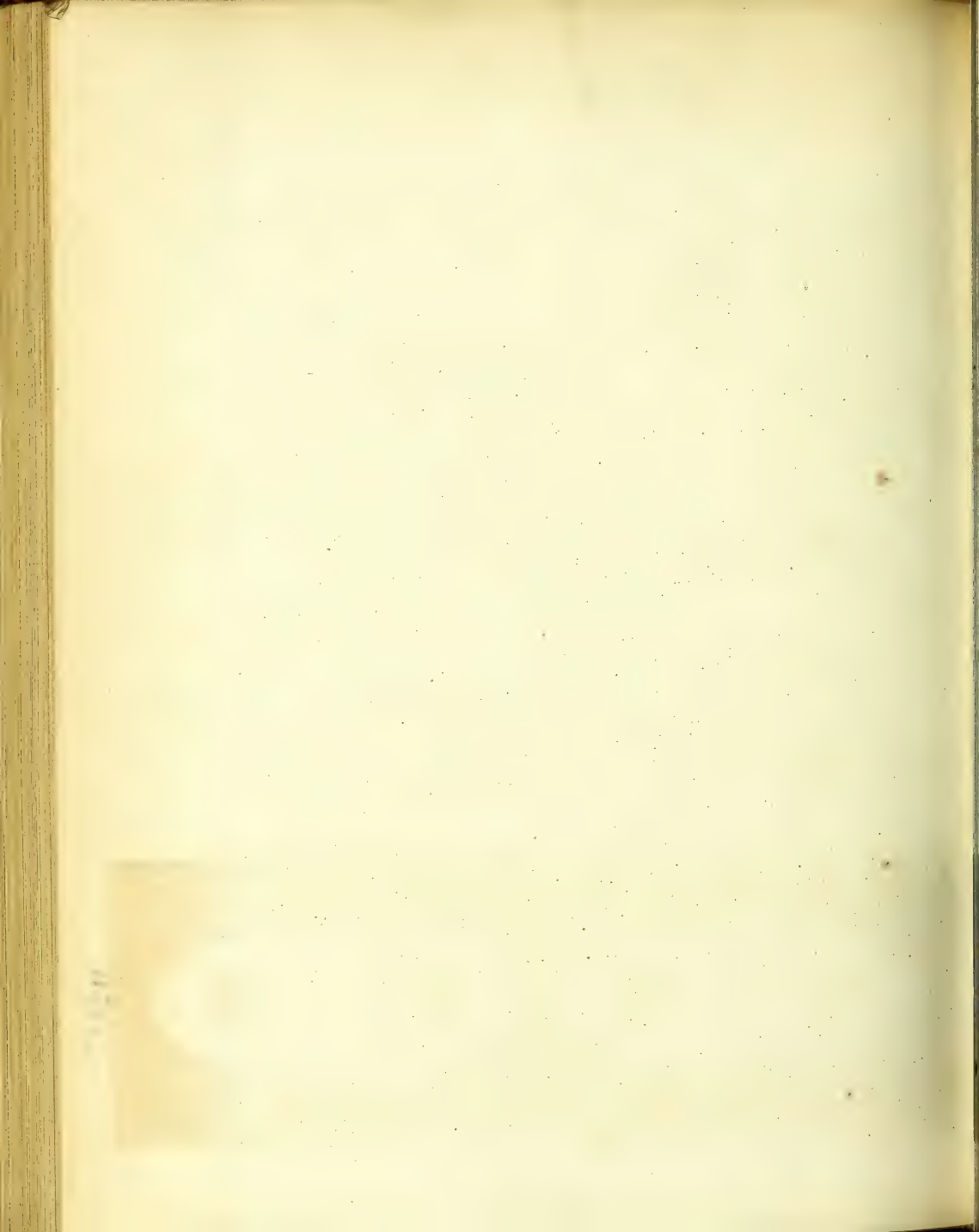
Fig. 14.



VENUS'S PARALLAX.

Fig. 15.





ARTICULA exors

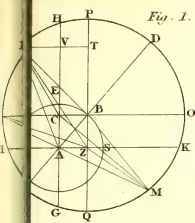


Fig. 1.



Fig. 7.

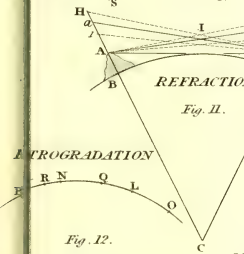


Fig. 12.

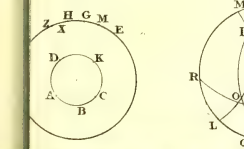


Fig. 13.

P E N U M B R A



Fig. 2.

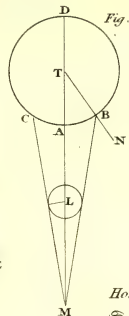


Fig. 3.

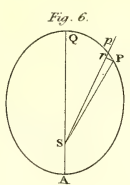


Fig. 6.

P L A N E T

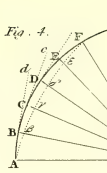


Fig. 4.

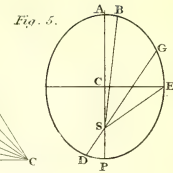


Fig. 5.

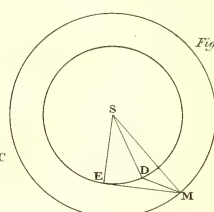


Fig. 3.*

Fig. 9.

LATITUDE
REDUCTION

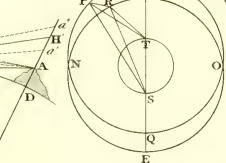


Fig. 10.

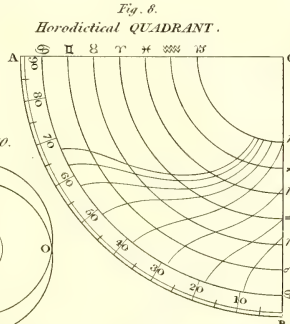


Fig. 8.

Horodictical QUADRANT.

PROSTAPHERESIS

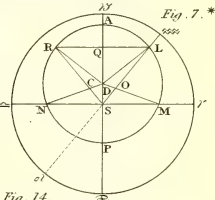


Fig. 7.*

Saturn's

RING. Fig. 14.

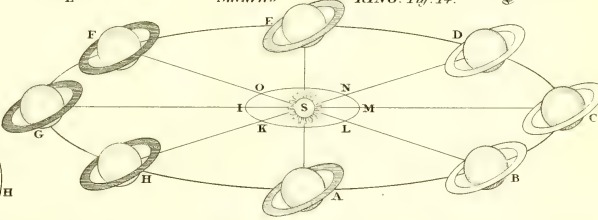
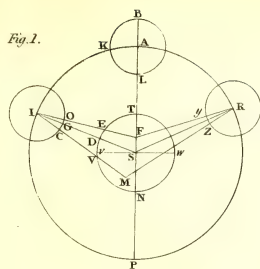


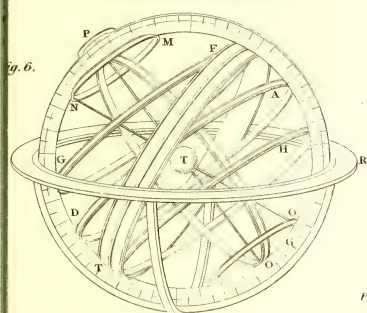
Fig. 15.

Fig. 16.

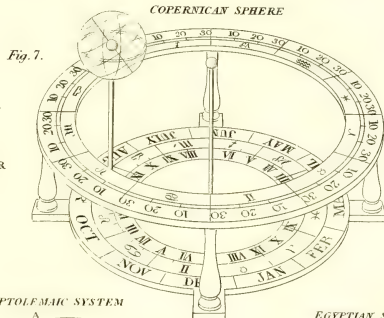




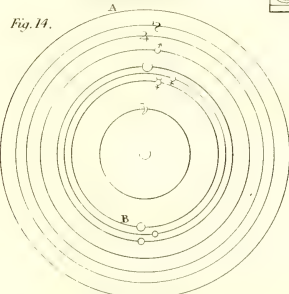
PTOLEMAIC ARMILLARY SPHERE



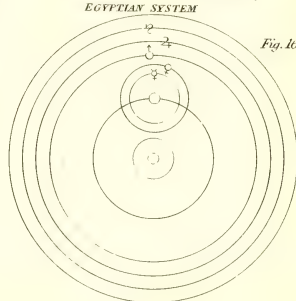
COPERNICAN SPHERE



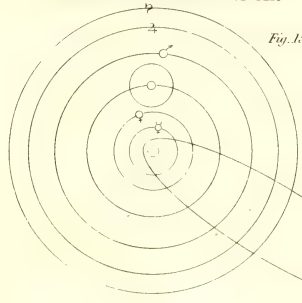
PTOLEMAIC SYSTEM



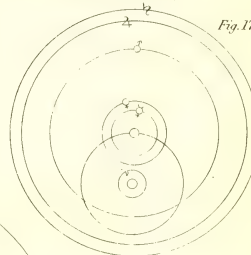
EGYPTIAN SYSTEM



PYTHAGOREAN and COPERNICAN SYSTEM



TYCHONIC SYSTEM



SATELLITES OF JUPITER

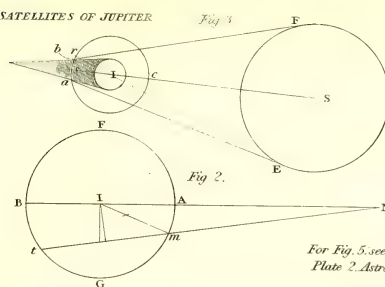


Fig. 2.

CONFIGURATION

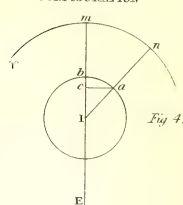


Fig. 4.

STARS

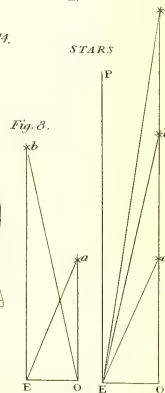


Fig. 9.

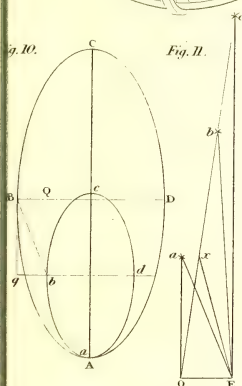


Fig. 11.

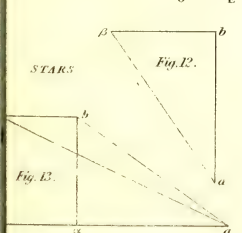


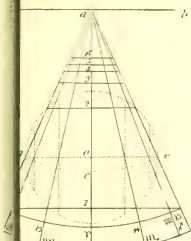
Fig. 12.



Fig. 13.



Fig. 5.



TRIGON

Fig. 6.

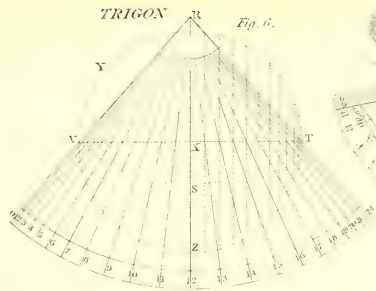
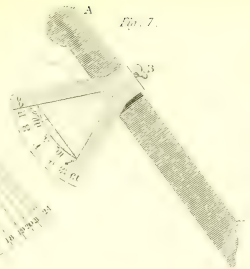


Fig. 7.



VENUS

Fig. 8.



Fig. 9.

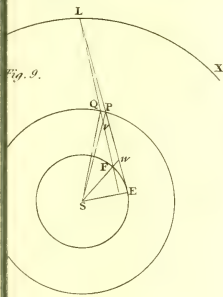


Fig. 10.

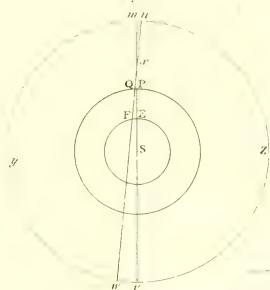


Fig. 11.



YEAR

Fig. 12.

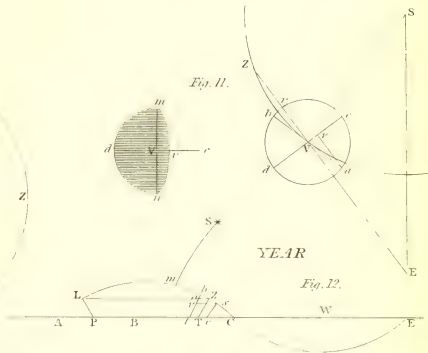
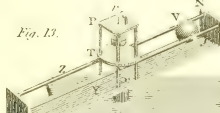


Fig. 13.



WHIRLING Table.

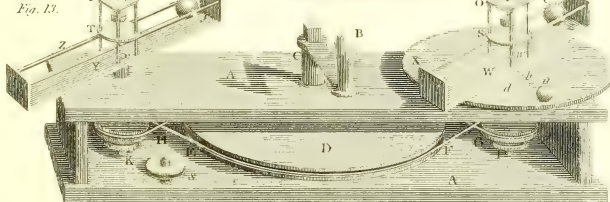


Fig. 14.

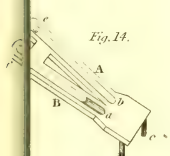


Fig. 17.



Fig. 19.



Fig. 19.



Fig. 21.

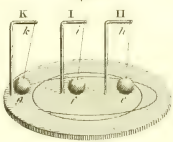


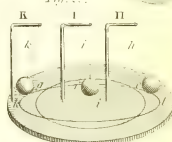
Fig. 15.



Fig. 16.



Fig. 22.





ASTRONOMY. SOLAR SYSTEM

PLATE XII.

Fig. 1.

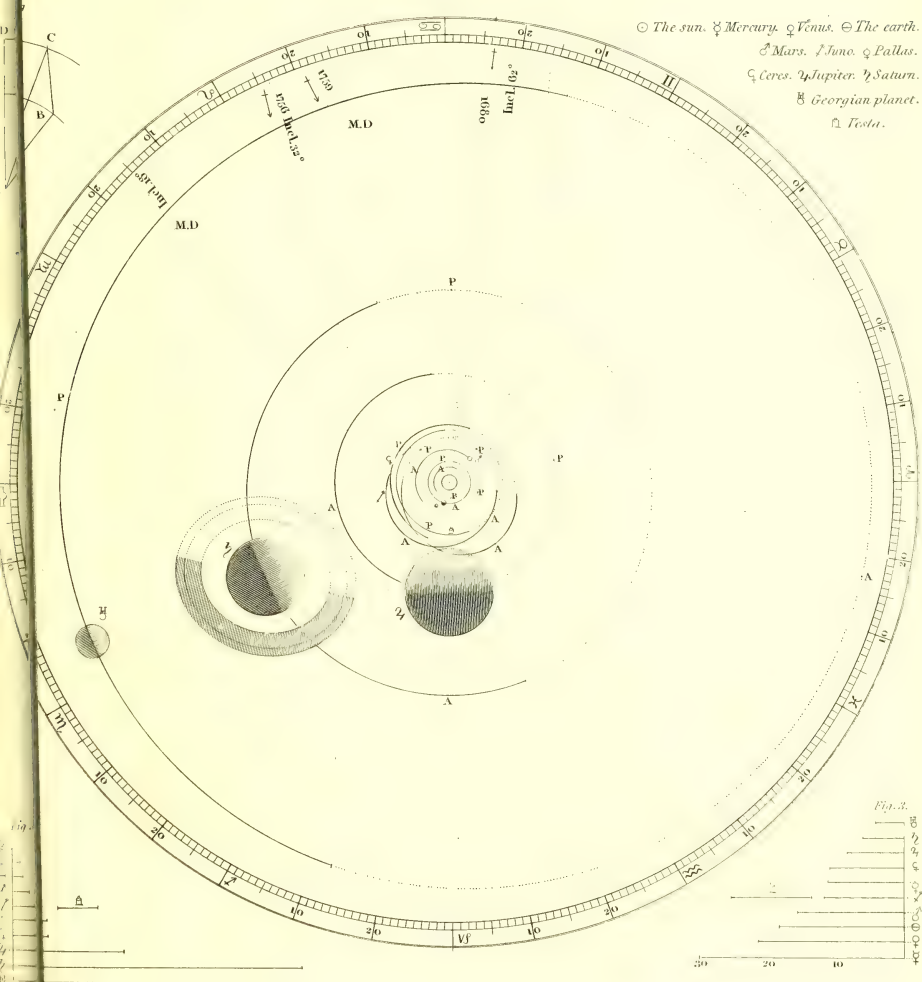


Fig. 3.

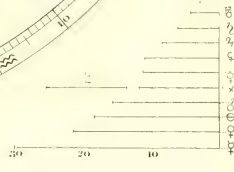
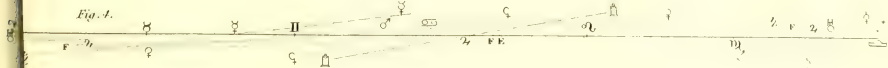
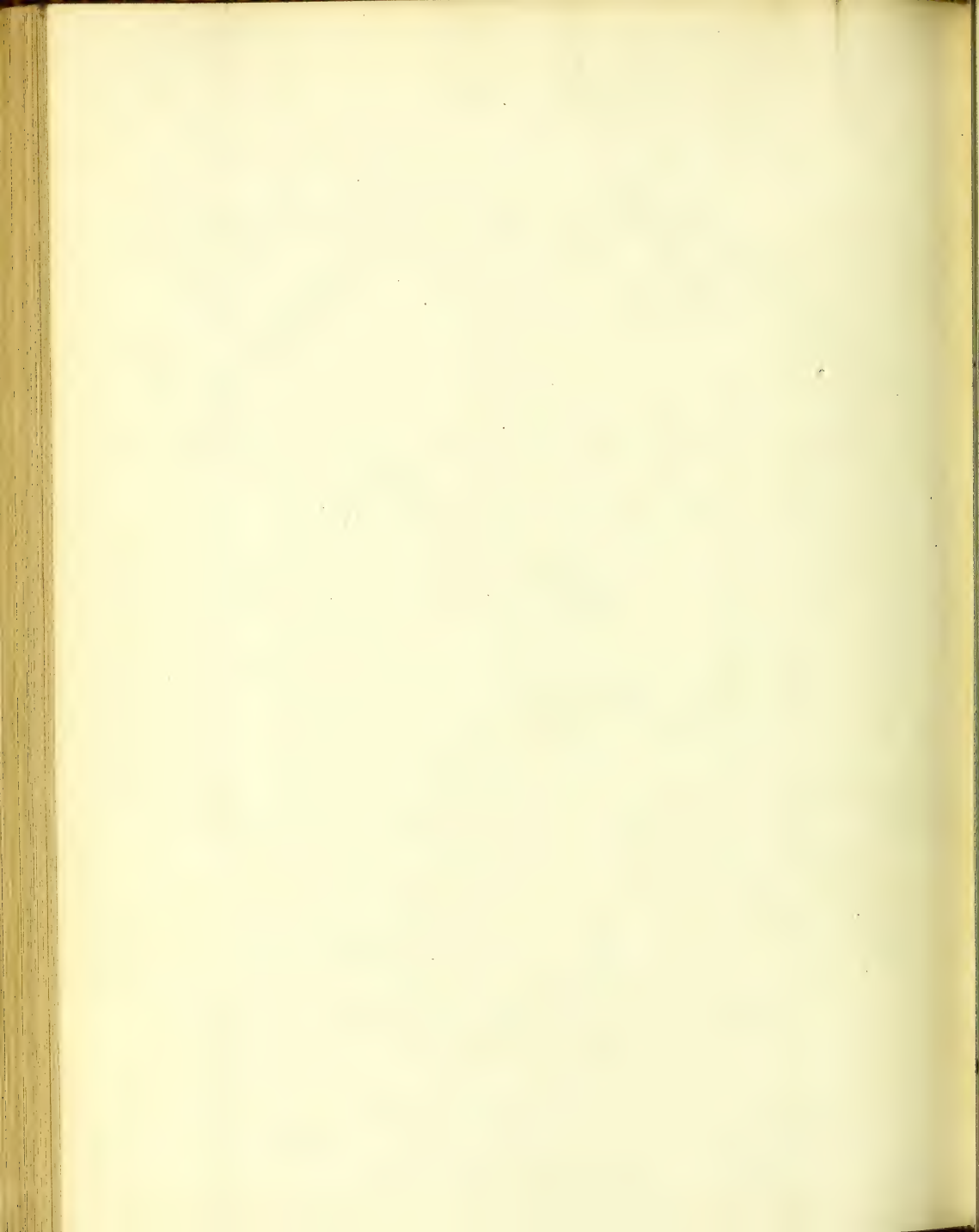


Fig. 4.





 } Perih of the Comet in . . . { North Latitude.
 } South Latitude.

☼ Nearest approach to the Earth in North Latitude.

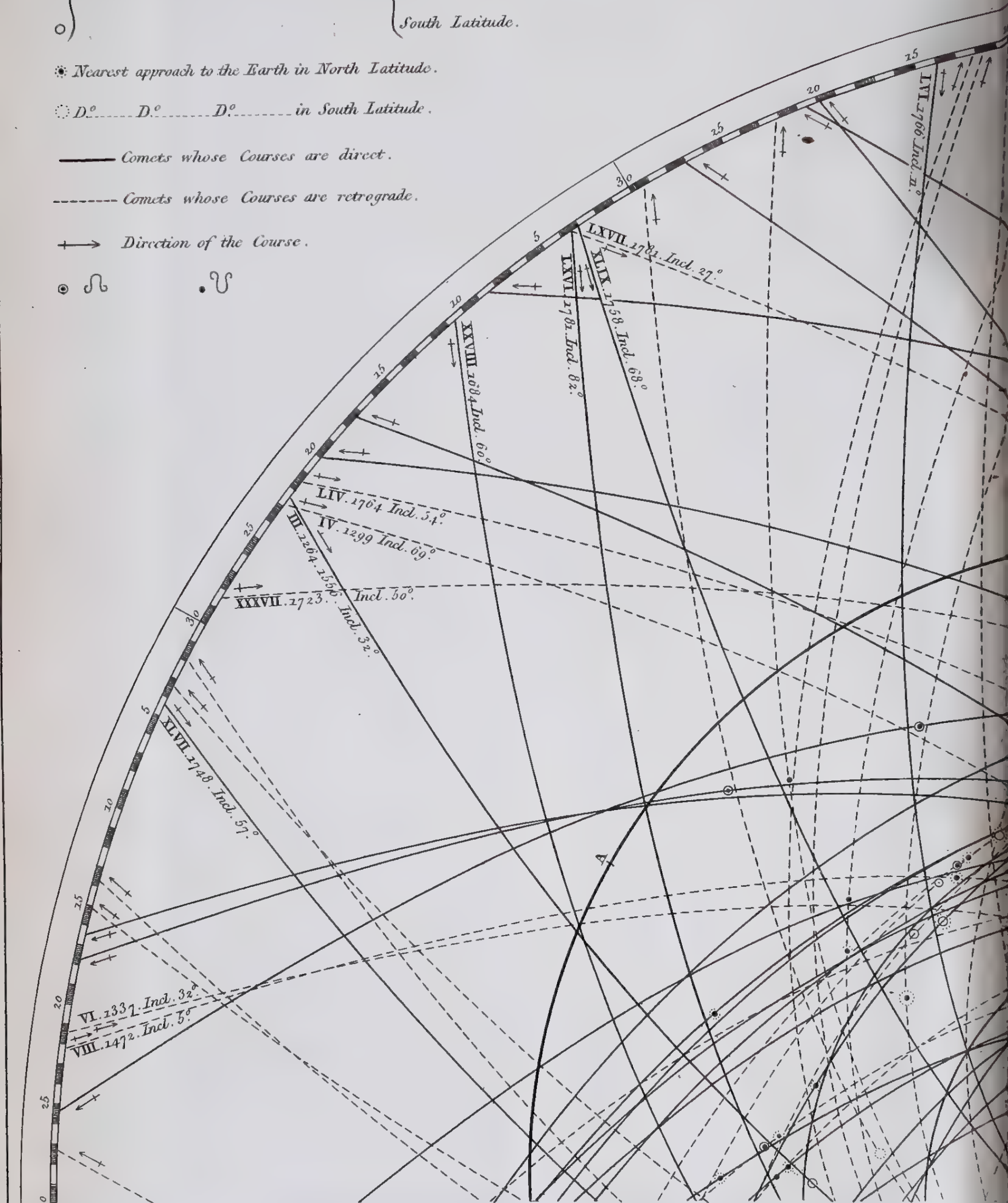
○ D° . . . D° . . . D° . . . in South Latitude.

— Comets whose Courses are direct.

- - - Comets whose Courses are retrograde.

+ → Direction of the Course.

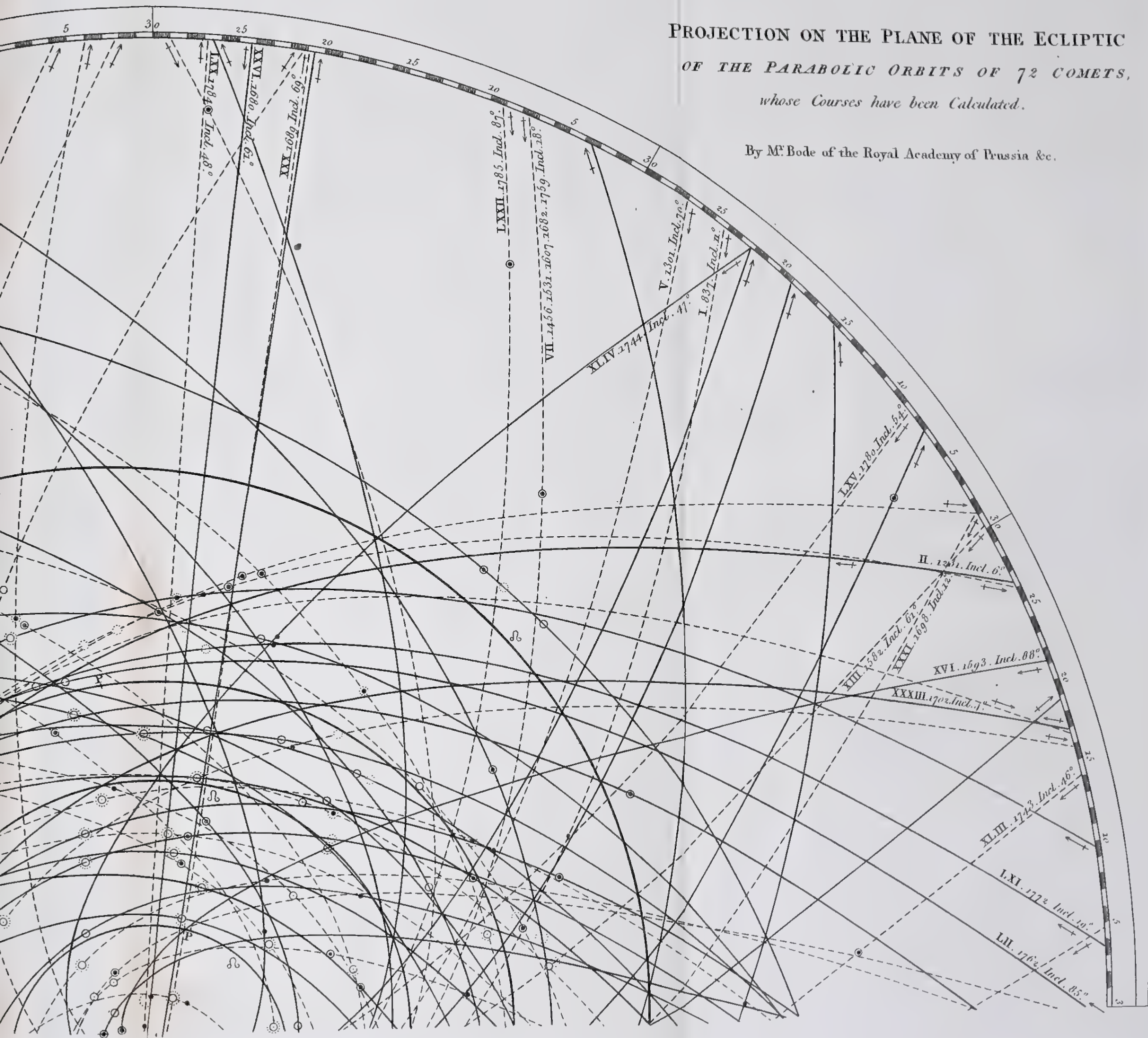
○ ∩ . ∪



ASTRONOMY.

PROJECTION ON THE PLANE OF THE ECLIPTIC OF THE PARABOLIC ORBITS OF 72 COMETS, whose Courses have been Calculated.

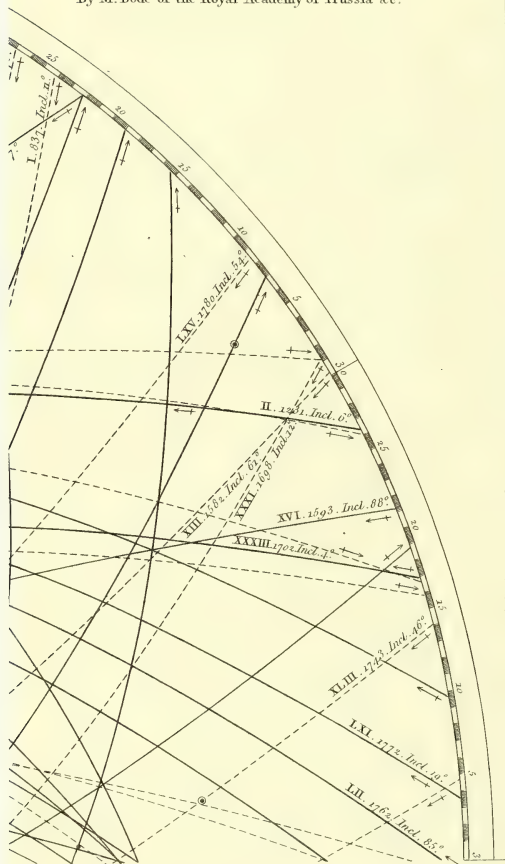
By M^r. Bode of the Royal Academy of Prussia &c.



PROJECTION ON THE PLANE OF THE ECLIPTIC
OF THE PARABOLIC ORBITS OF 72 COMETS,

whose Courses have been Calculated.

By M^r Bode of the Royal Academy of Prussia &c.

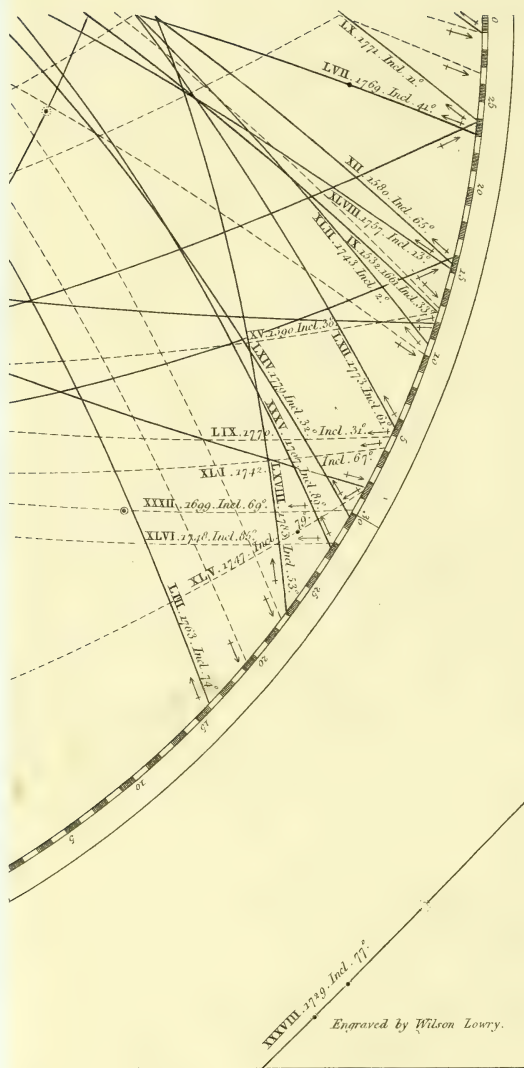




Millions of English Miles.



Mean distance of the Earth from the Sun: ----->



ASTRONOMY.

PLATE I.

NORTHERN HEMISPHERE.





ASTRONOMY
SOUTHERN HEMISPHERE.

PLATE II.

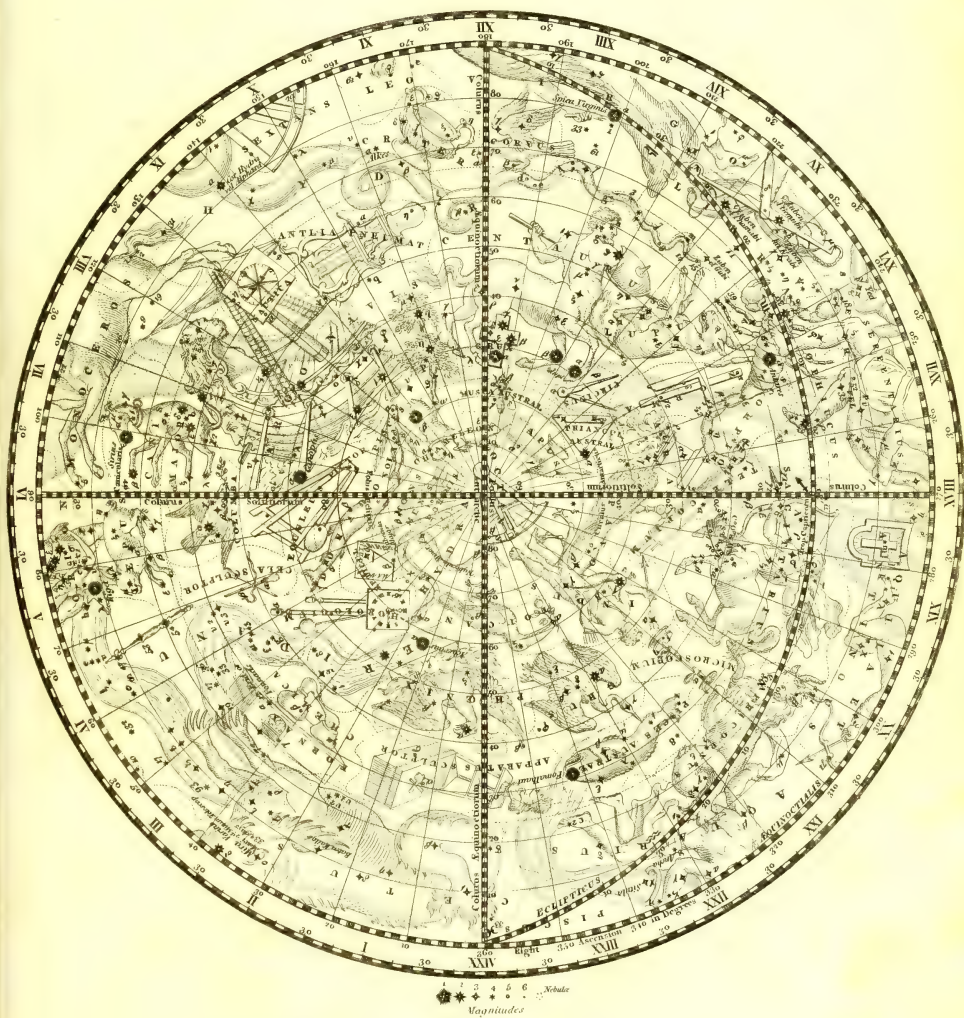




Fig. 1.

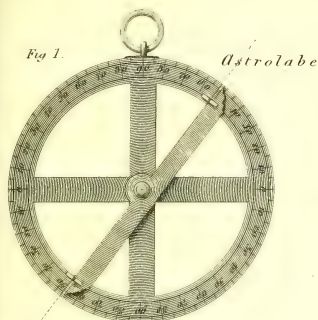


Fig. 2.

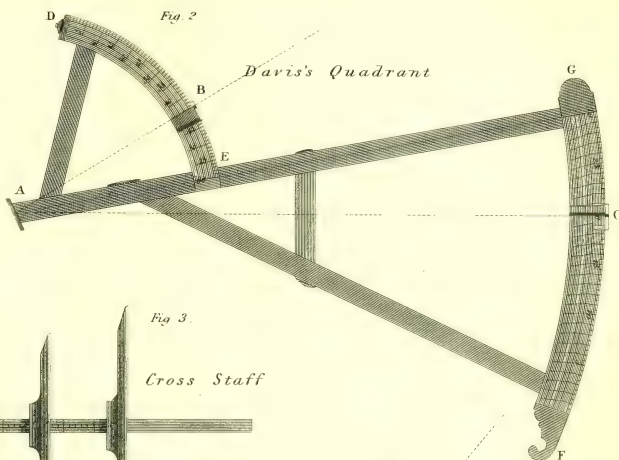


Fig. 3.

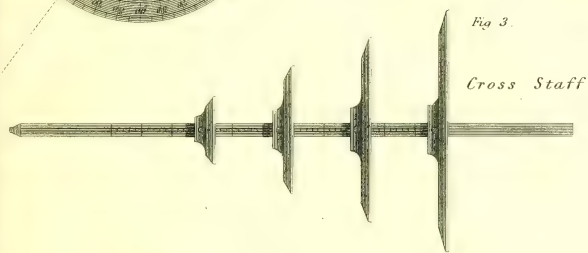


Fig. 4.

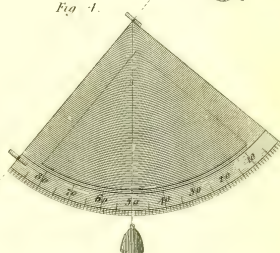


Fig. 5.

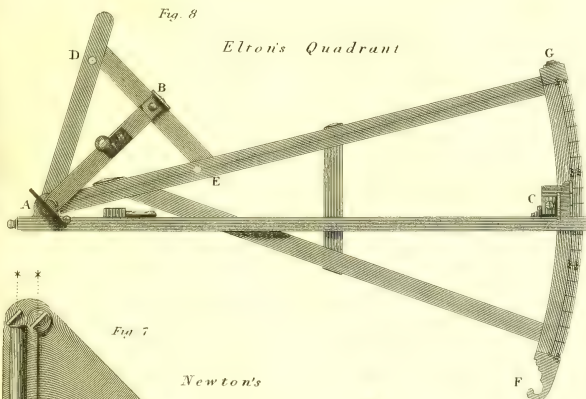


Fig. 7.

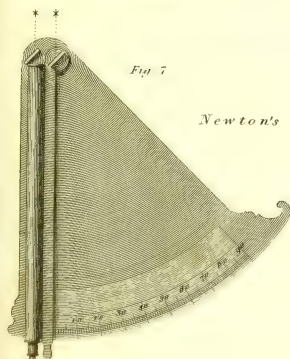
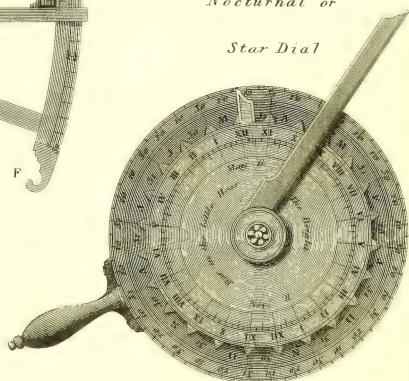
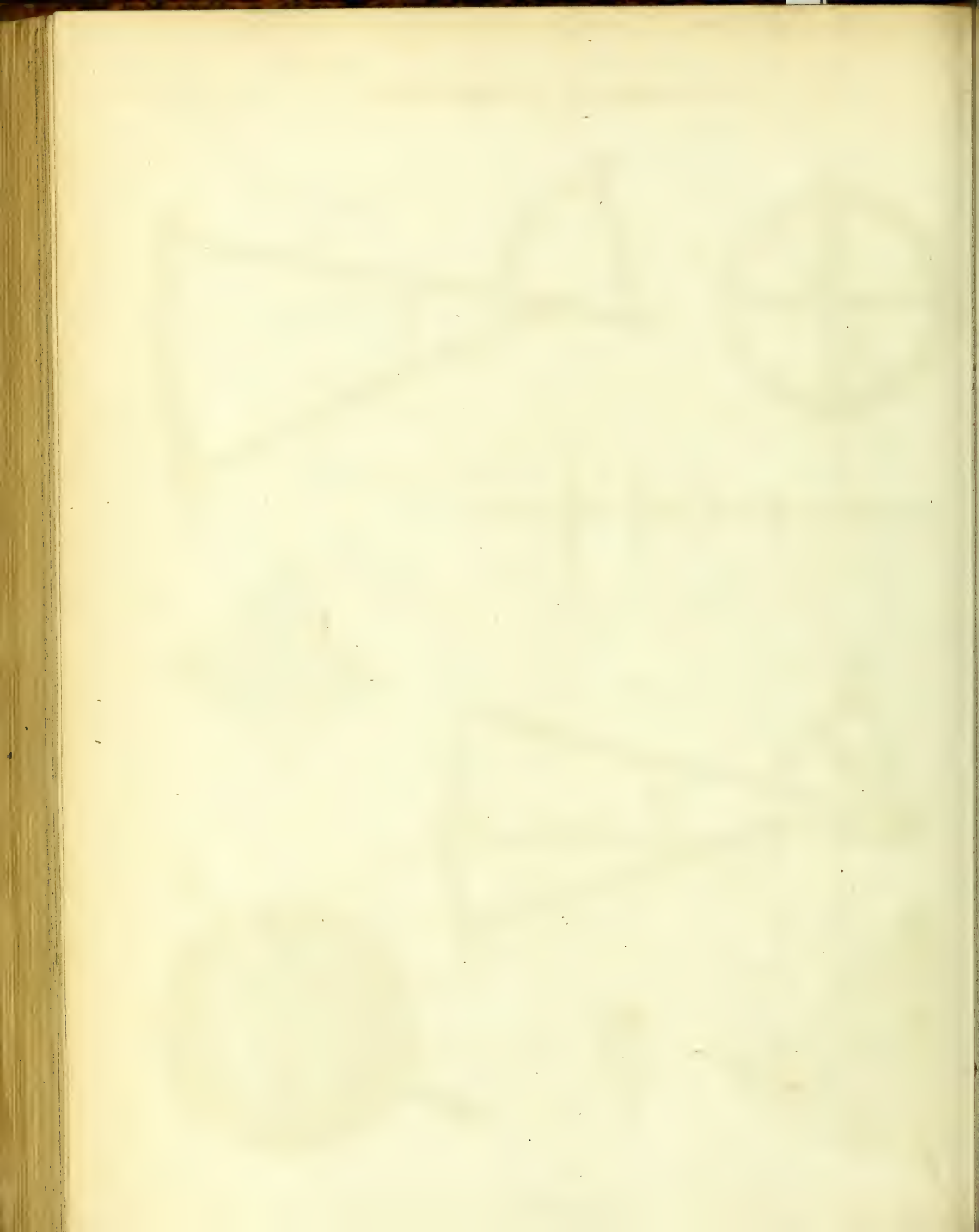


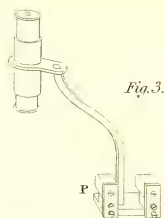
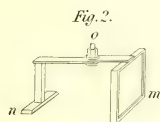
Fig. 6.





ASTRONOMICAL INSTRUMENTS.
CIRCLE

PLATE II.



Mayer's Circle

Fig. 1.

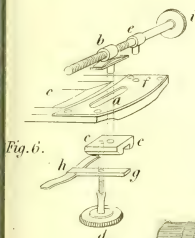
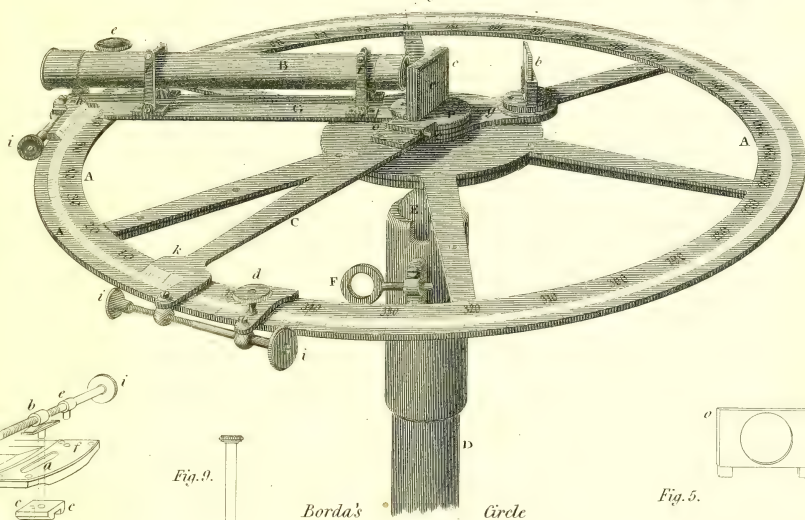


Fig. 9.



Borda's Circle

Fig. 4.

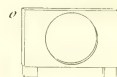
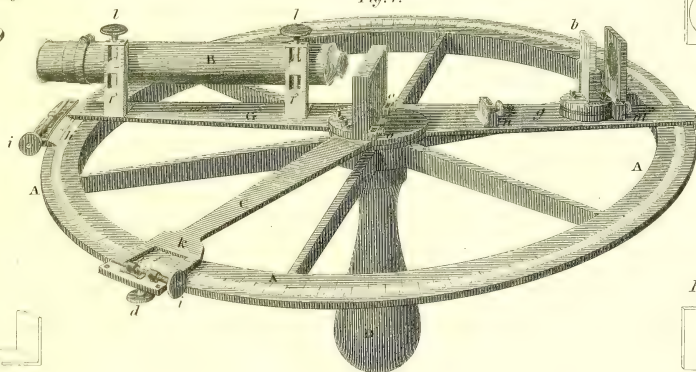


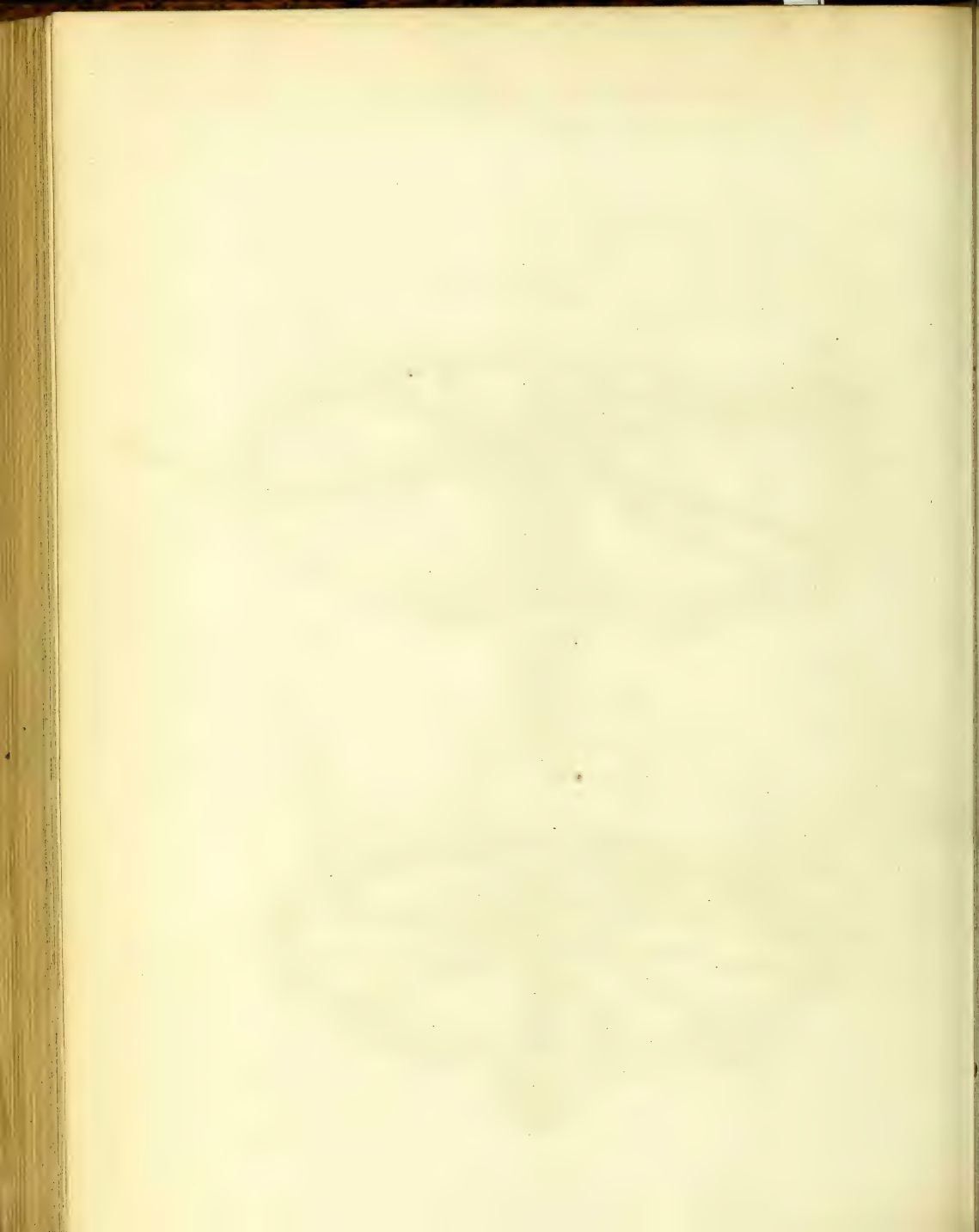
Fig. 5.



Fig. 7.



Fig. 8.



ASTRONOMICAL INSTRUMENTS.

PLATE III.

The English REFLECTING CIRCLE by Troughton.

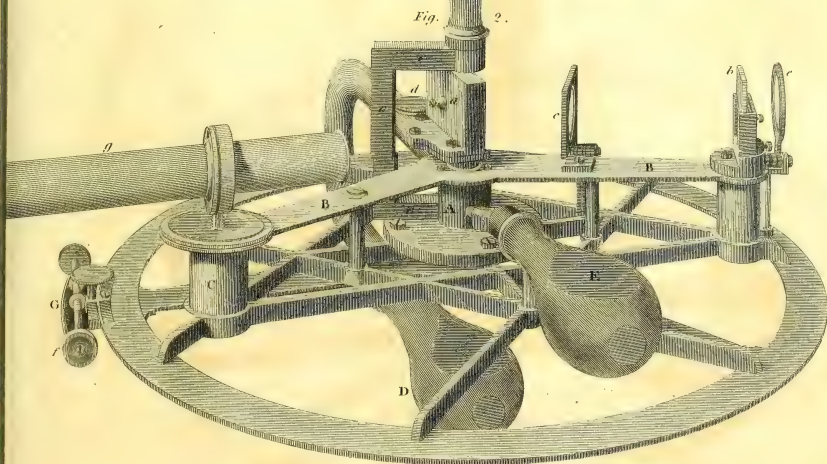
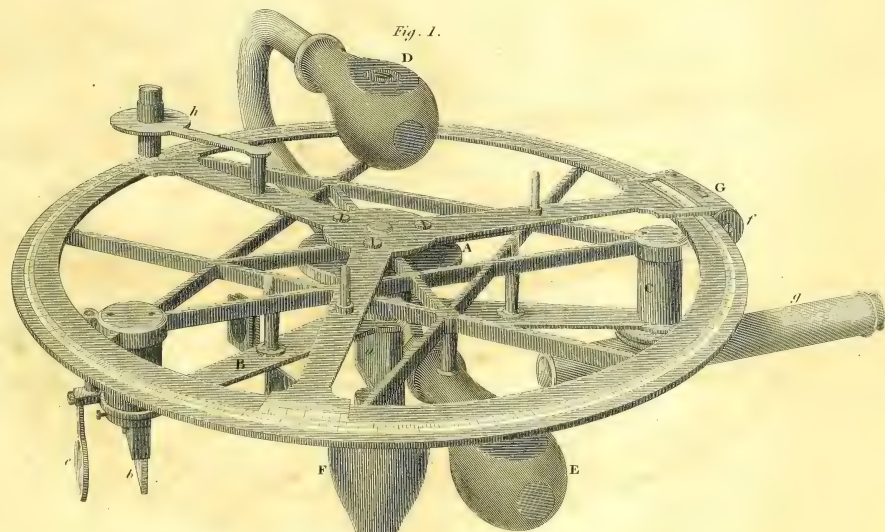




Fig. 1.

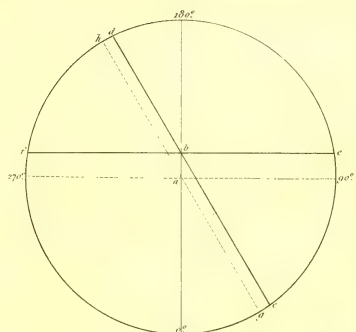


Fig. 2.

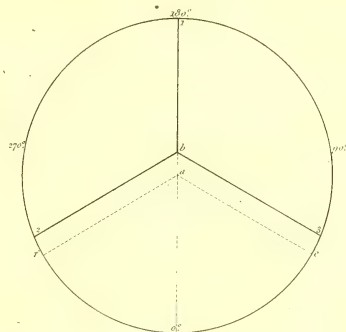


Fig. 3.

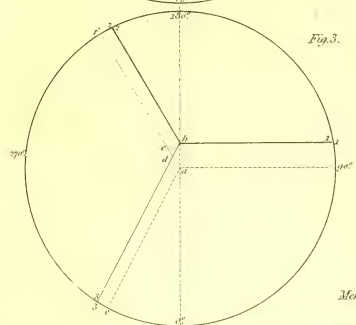
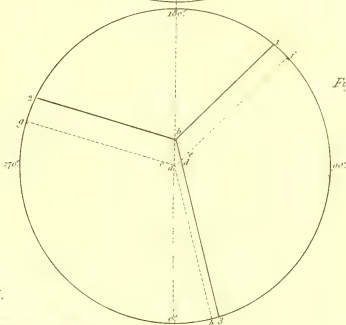
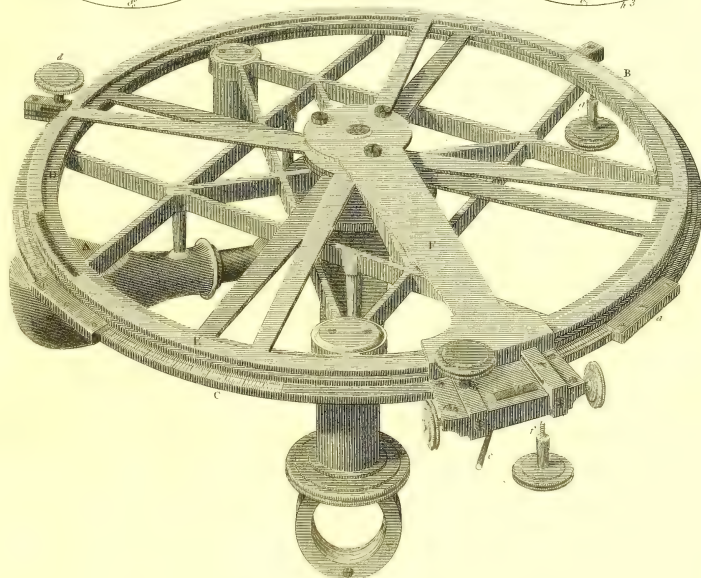
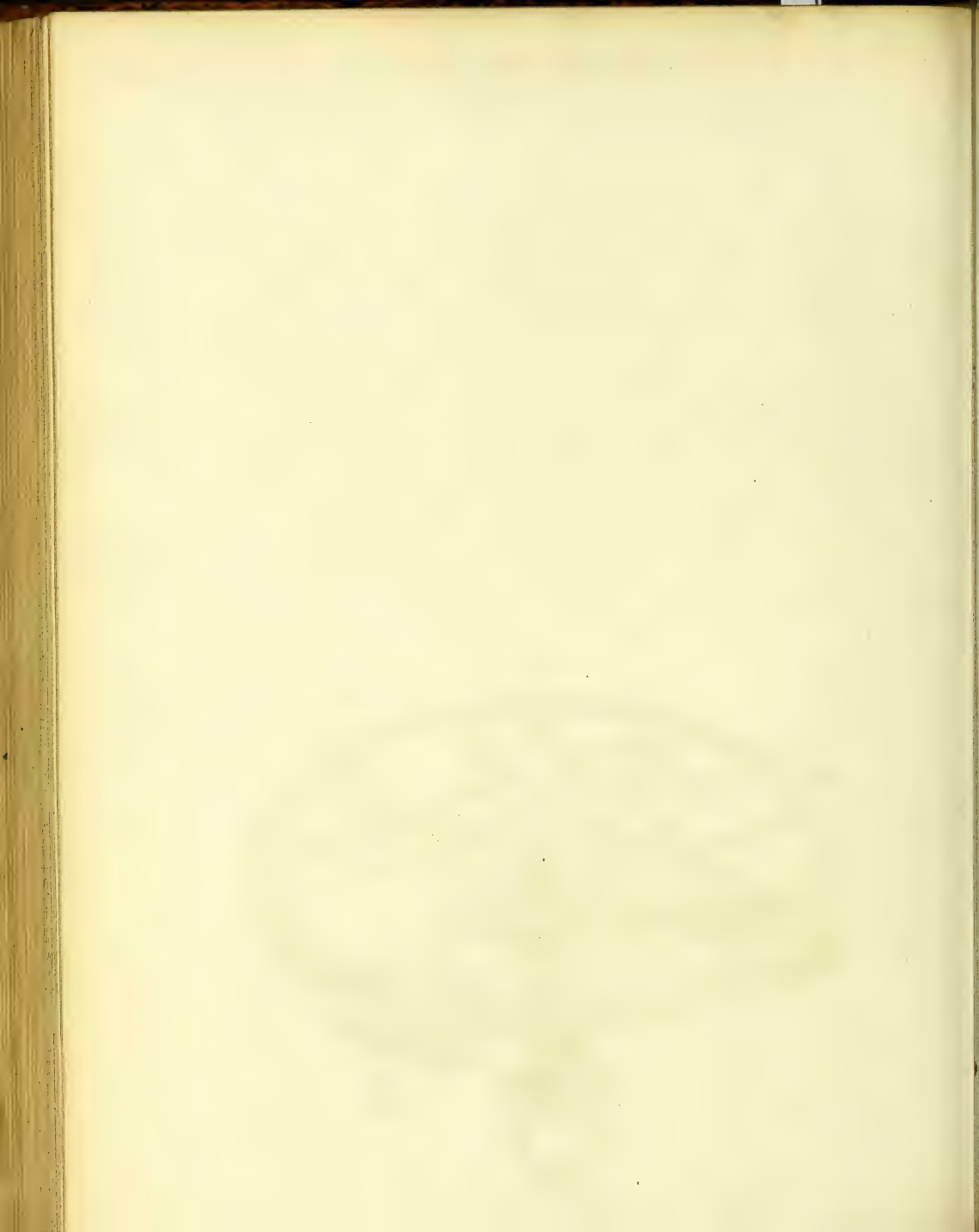


Fig. 4.



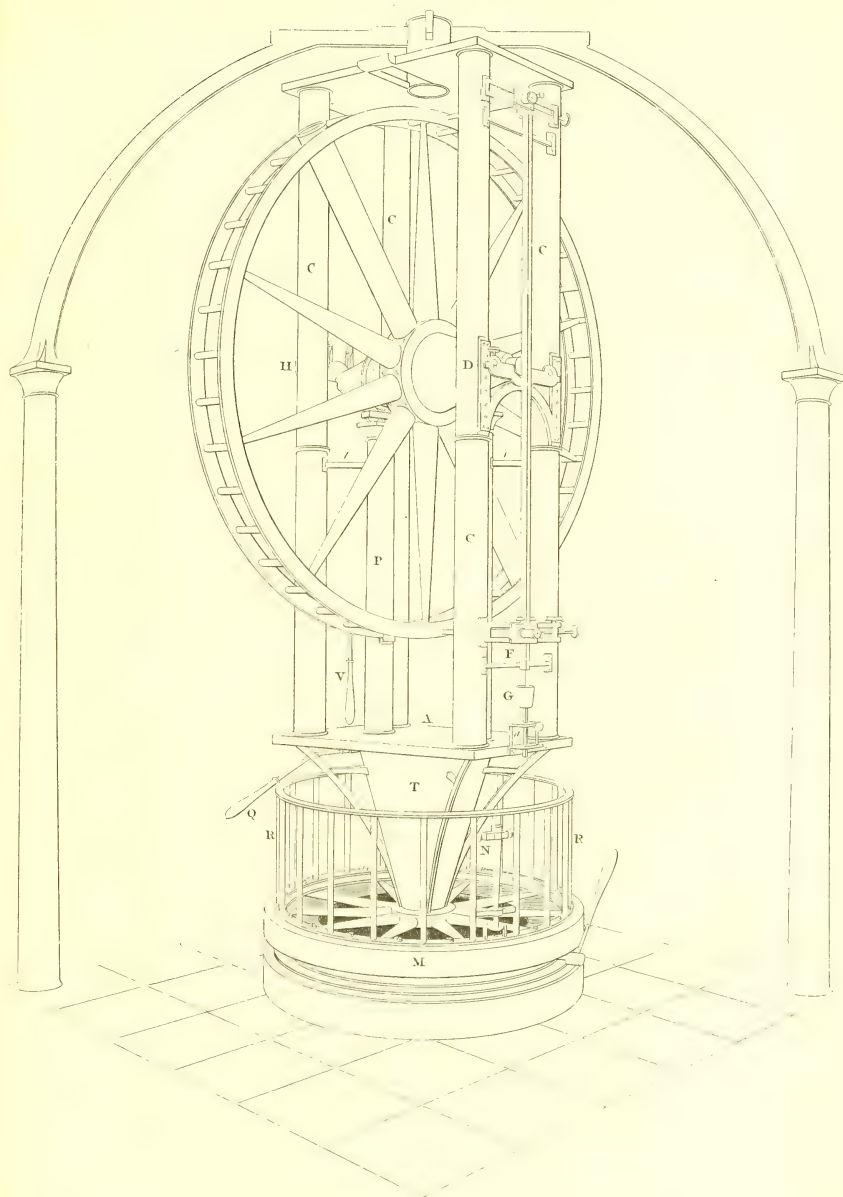
Mendoza's Circle Fig. 5.

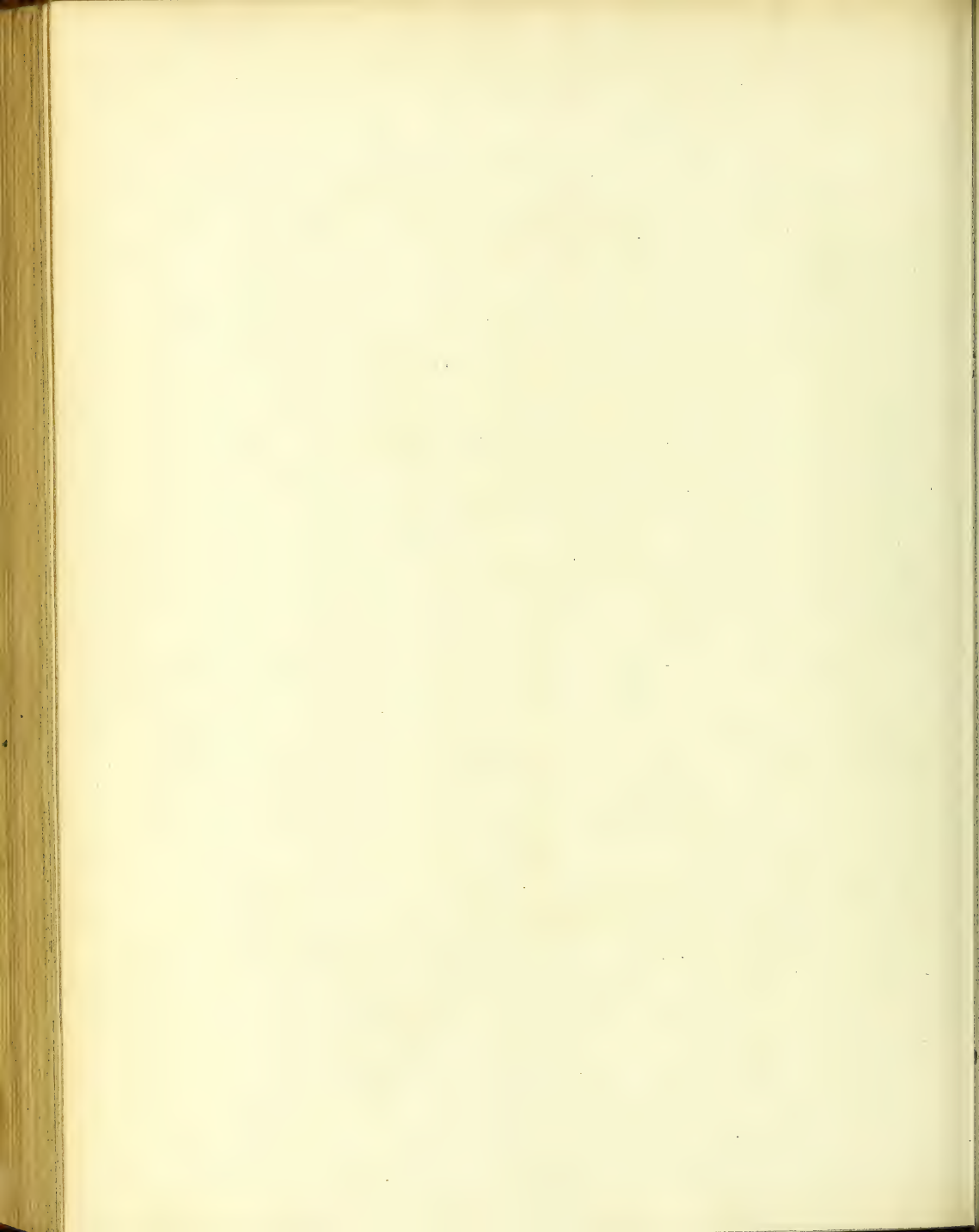




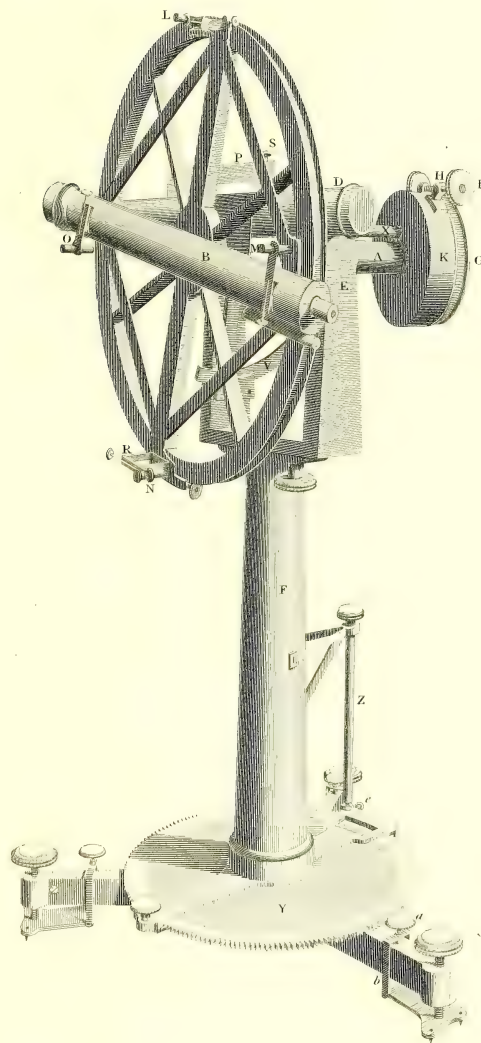
ASTRONOMICAL INSTRUMENTS.
Ramsden's CIRCLE.

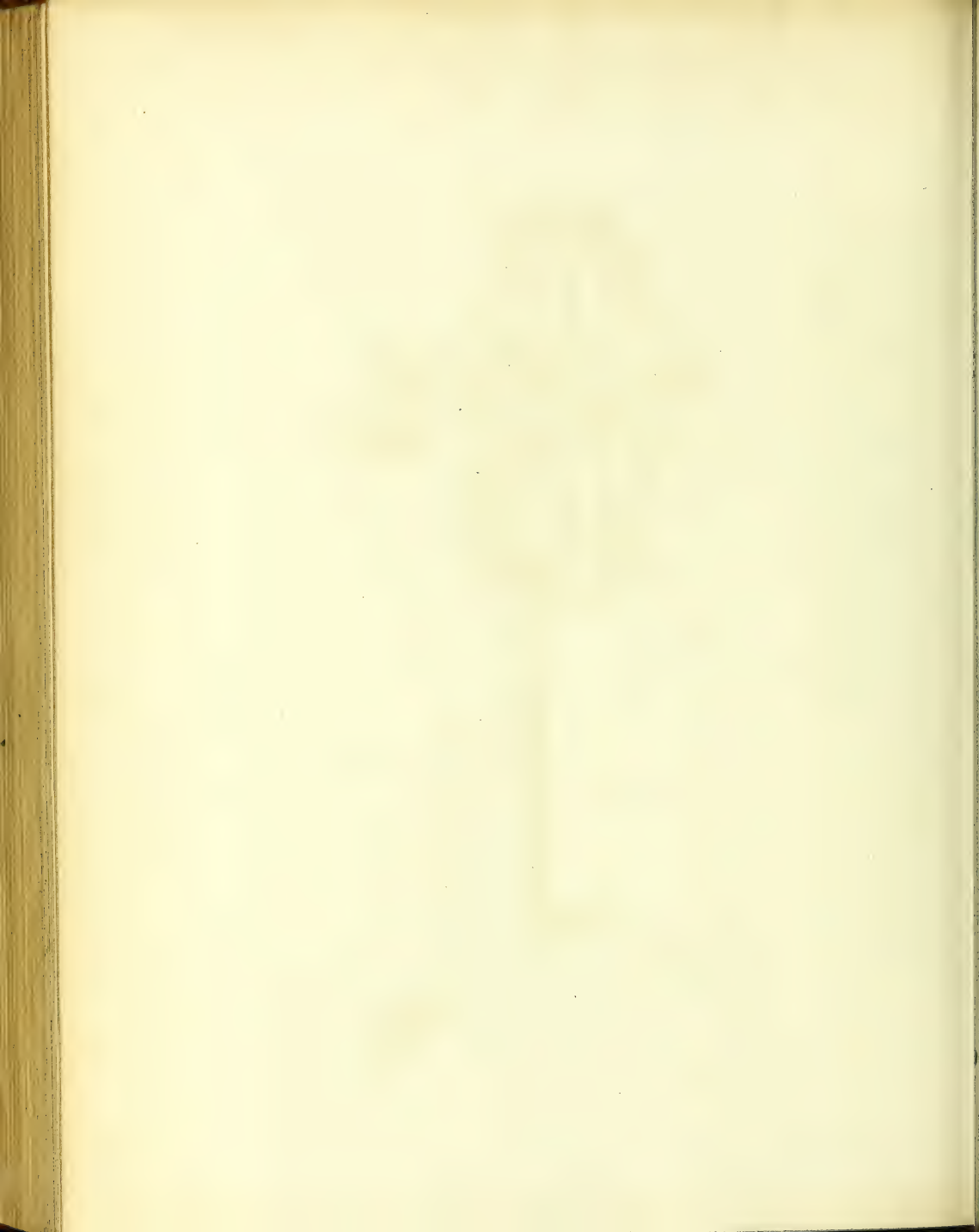
PLATE V.

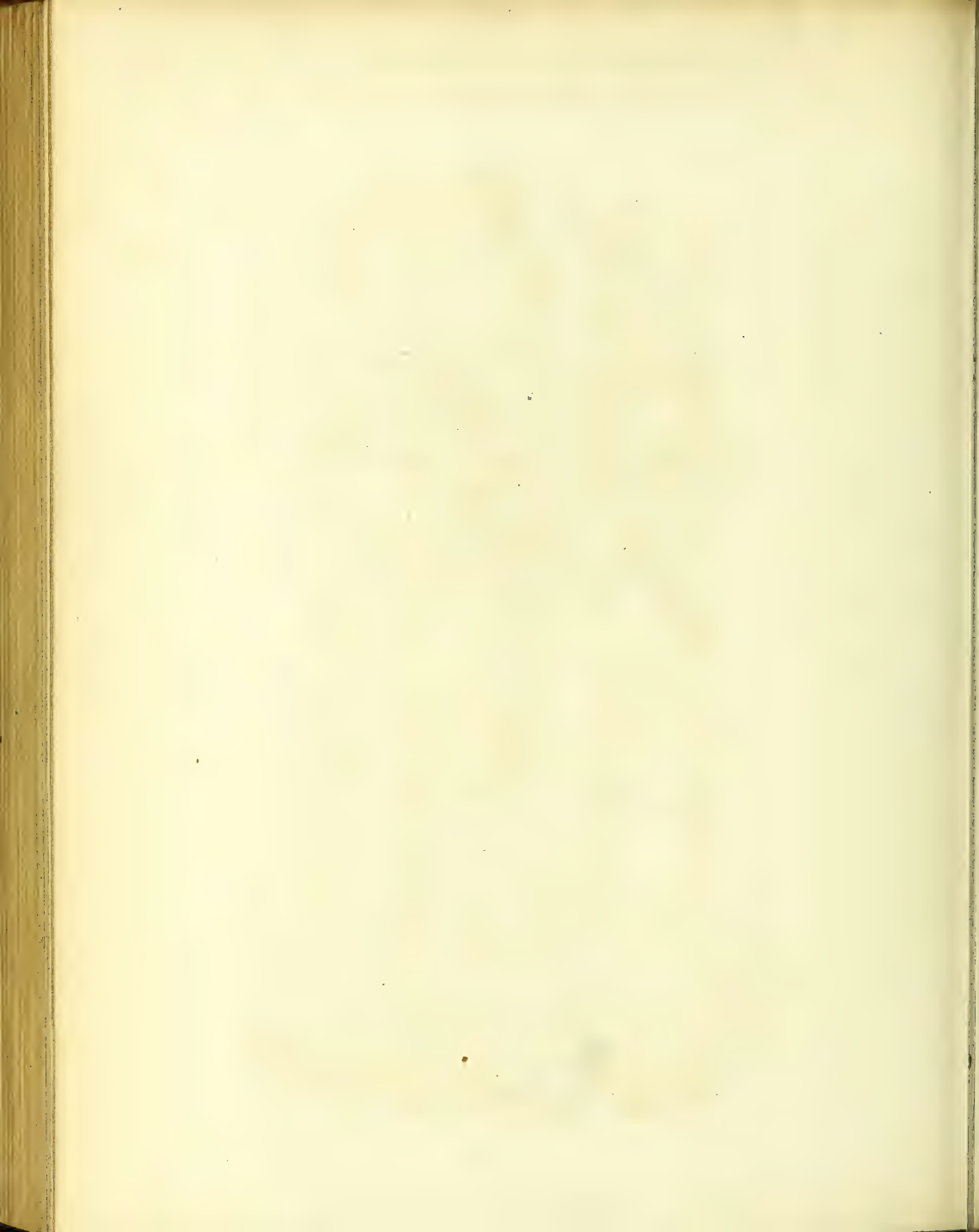




Borda's repeating Circle without reflection.

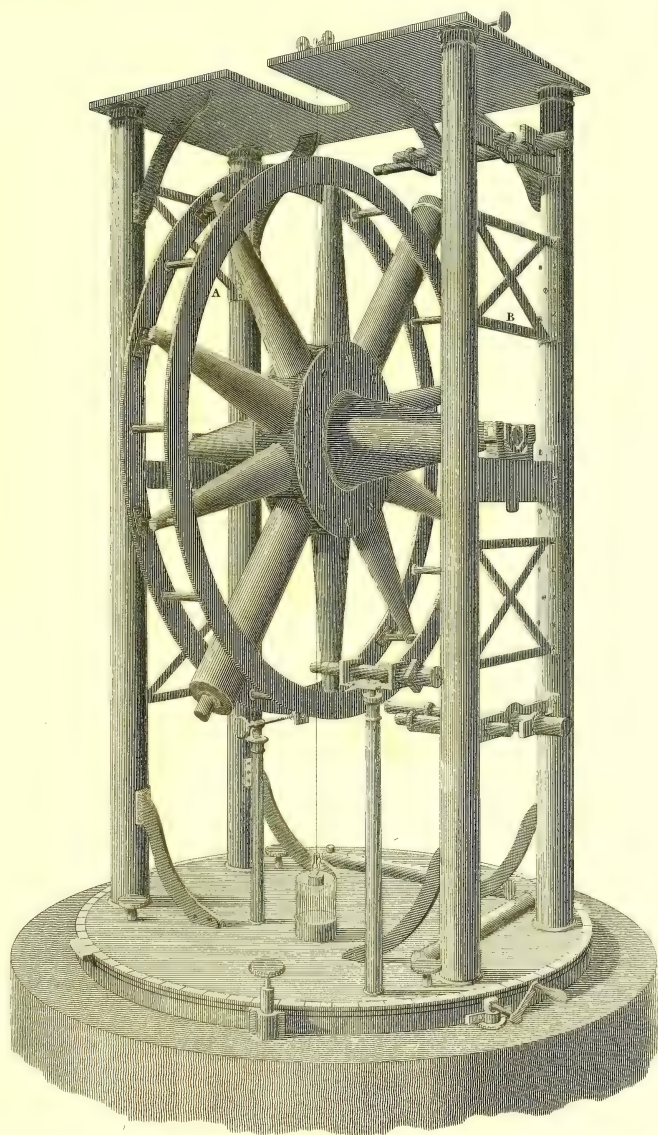


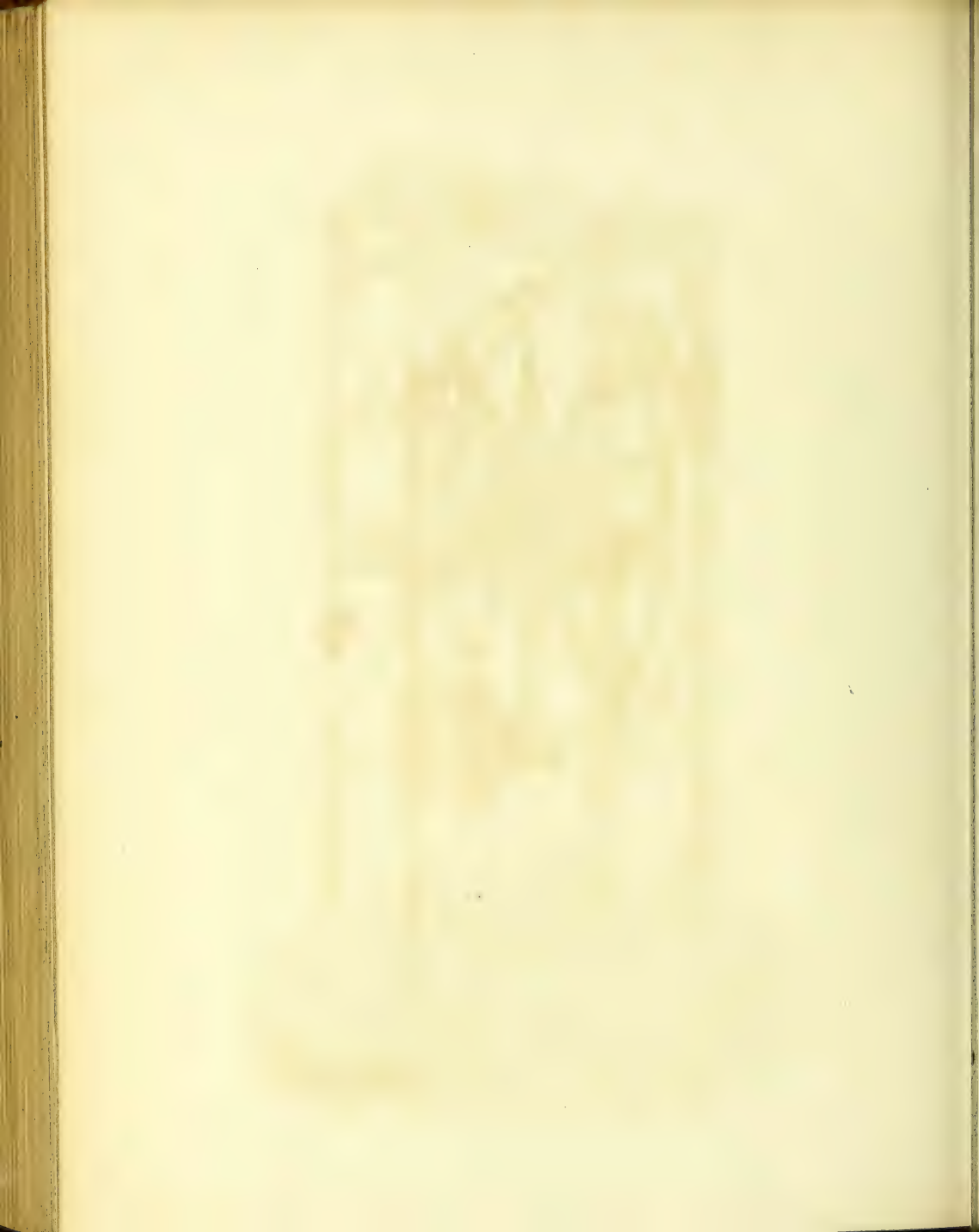




CIRCLE

by the Rev.^d Francis Woollaston.

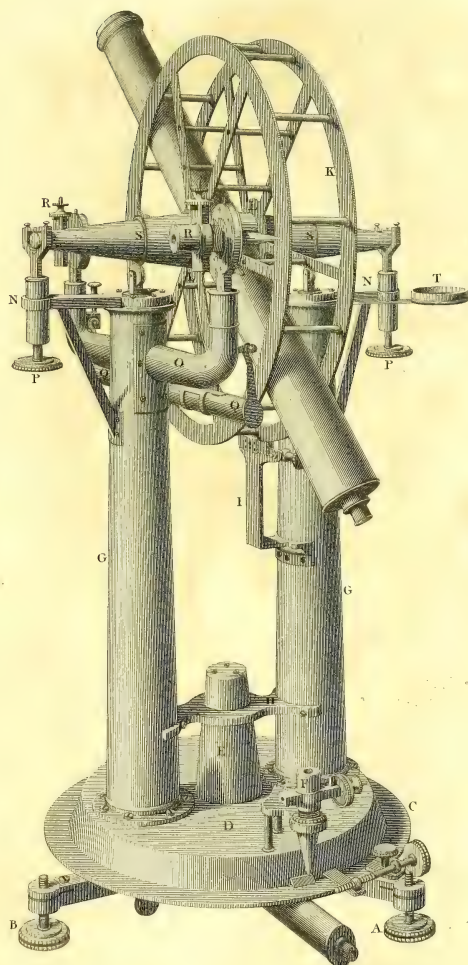




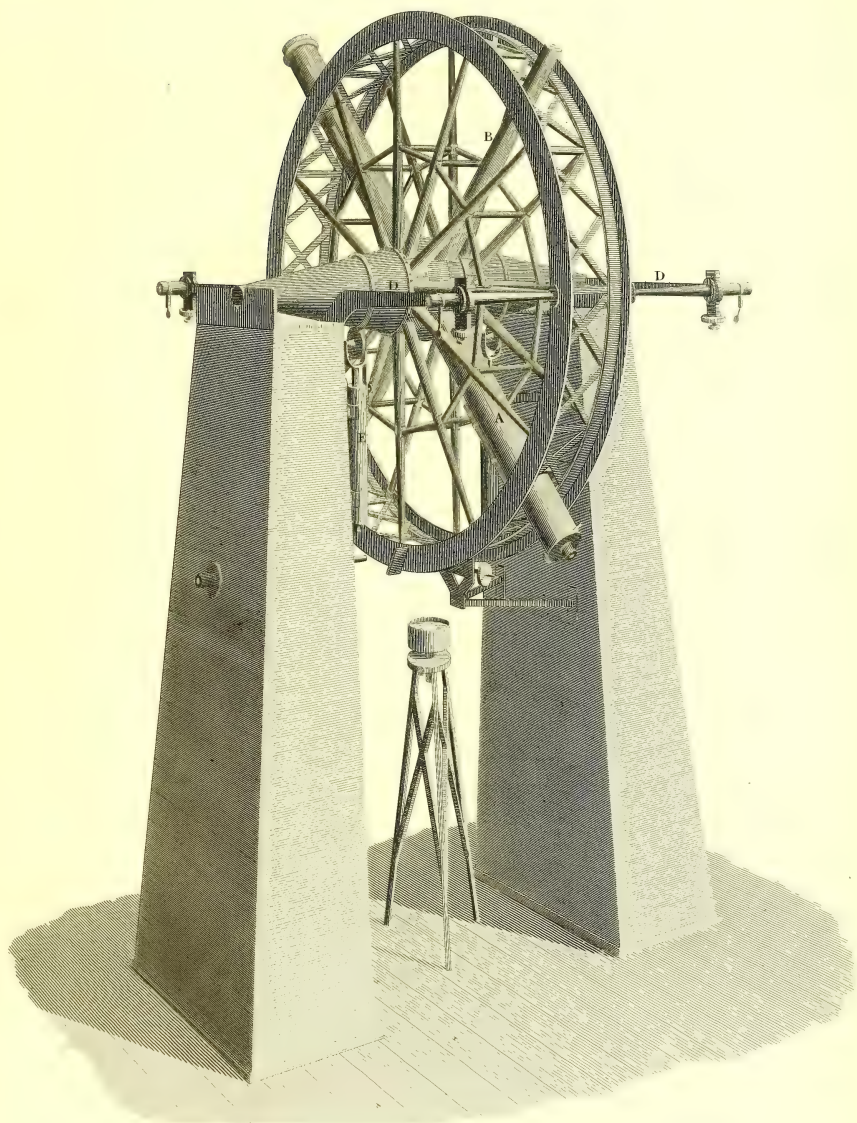
ASTRONOMICAL INSTRUMENTS.

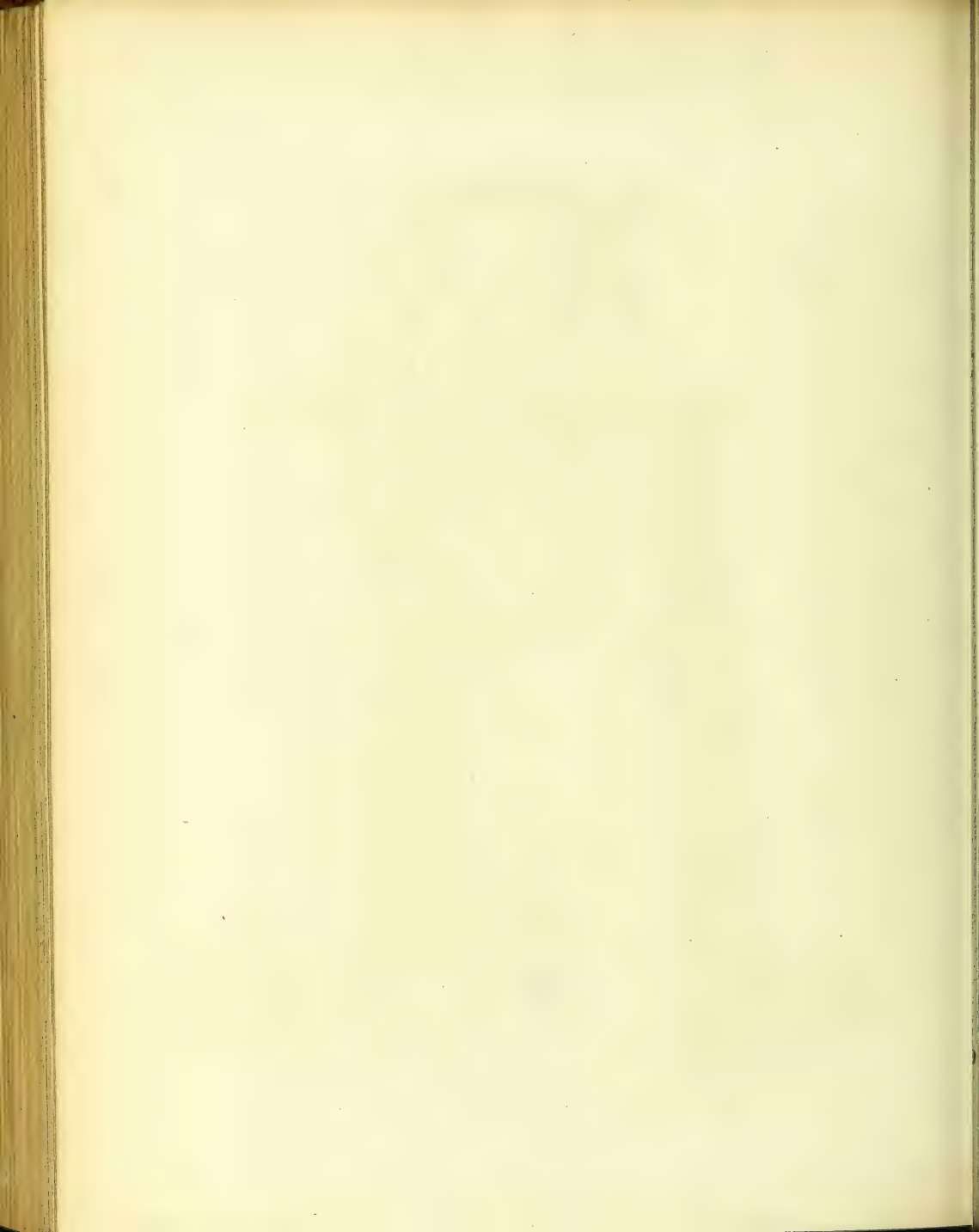
PLATE IX.

Portable CIRCLE by Troughton.



TROUGHTON'S MURAL CIRCLE.

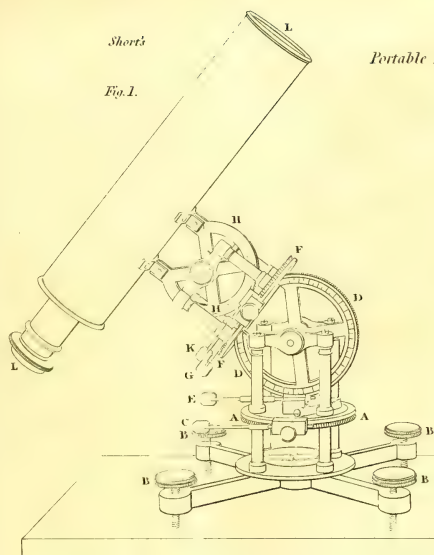




Portable Equatorial Instruments

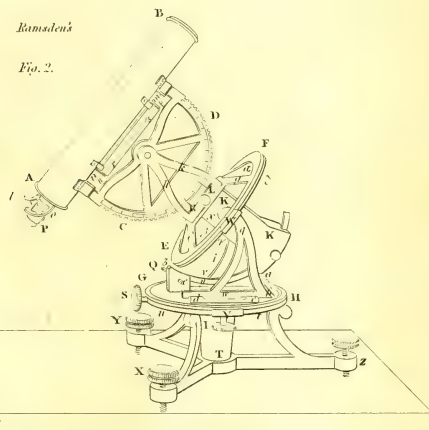
Short's

Fig. 1.



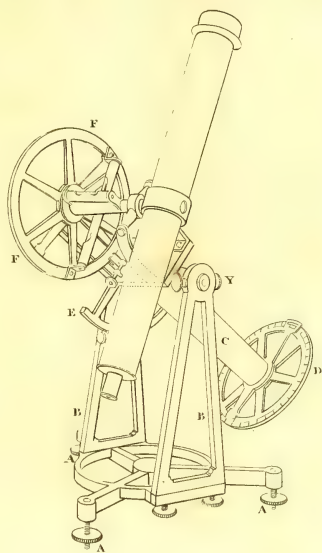
Ramsden's

Fig. 2.



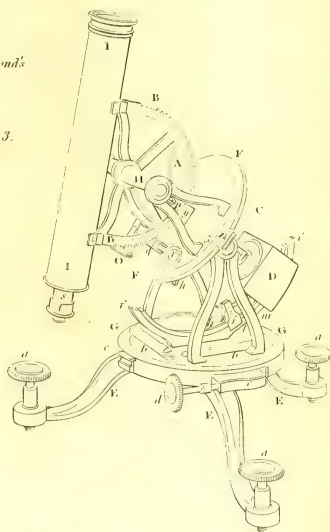
Engerer's

Fig. 4.



Dollond's

Fig. 3.





Dollond's.
OBJECT GLASS, MICROMETER.

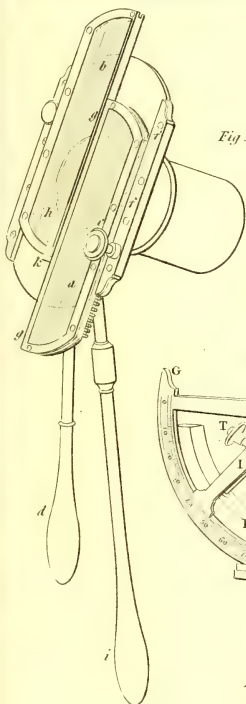


Fig. 4.

Nairne's.
Portable EQUATORIAL
Instrument.

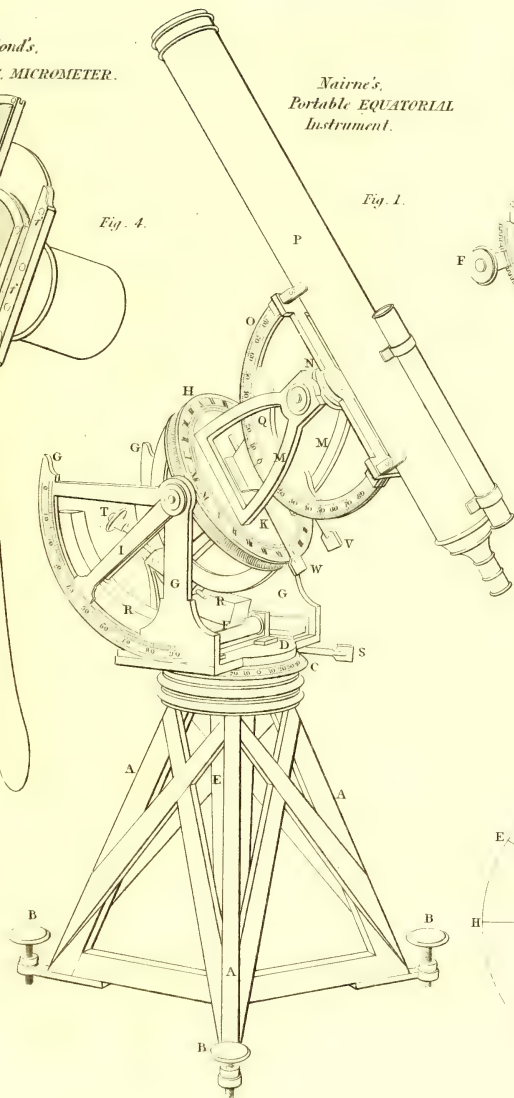


Fig. 1.

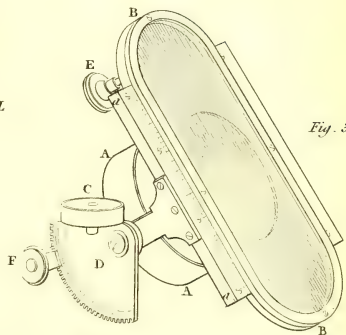
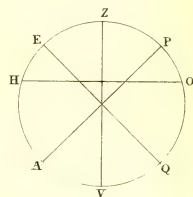


Fig. 3.

Dollond's.
REFRACTION Apparatus.

Fig. 4.



Ramsden's.
REFRACTION Apparatus.

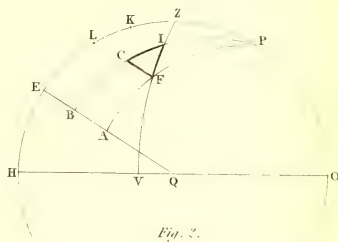
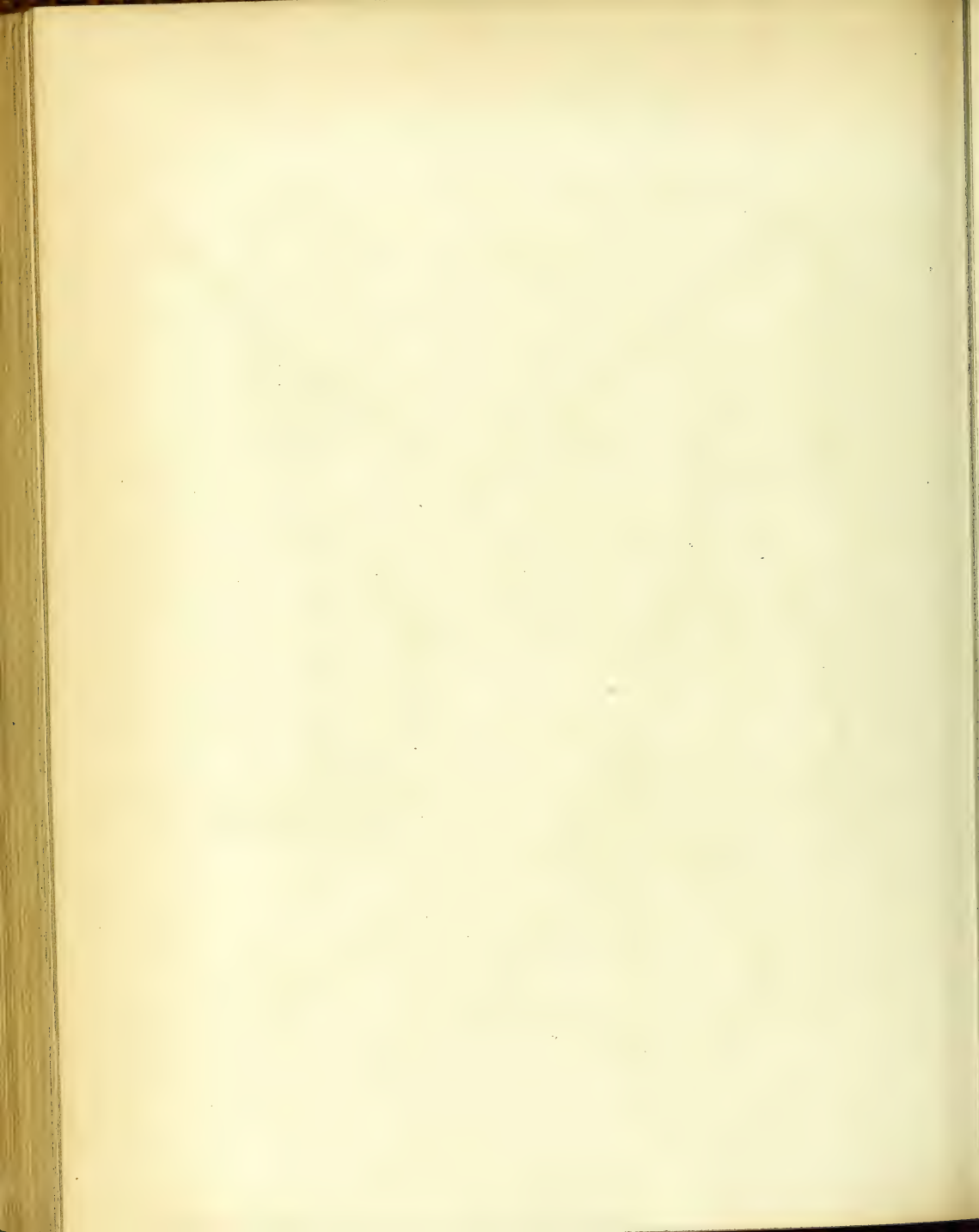


Fig. 2.



*Equatorial Stand of a
Telescope.*

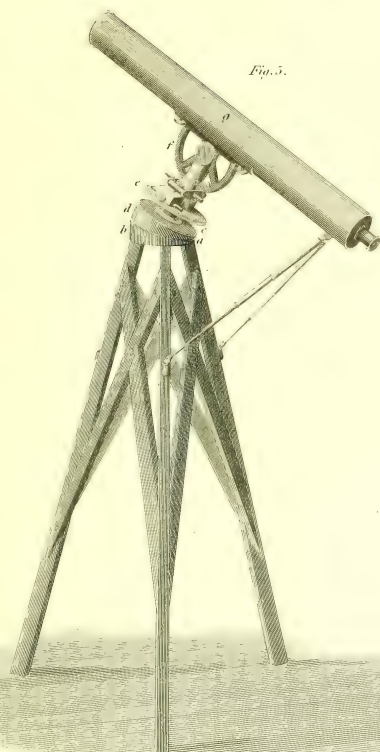


Fig. 5.

*M. Graham's Equatorial
Sector.*

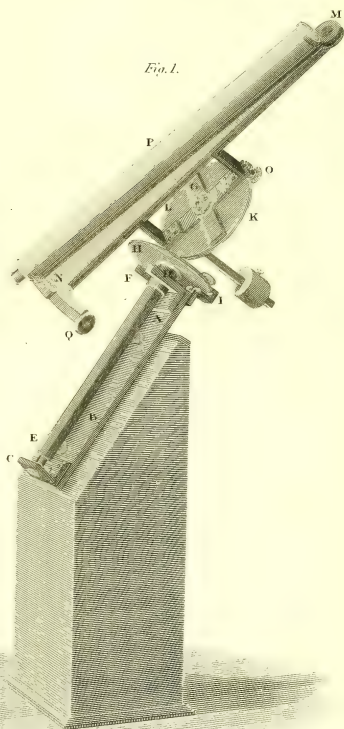


Fig. 1.

Fig. 2.

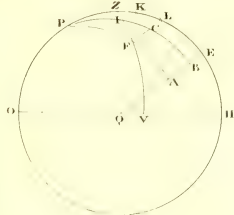


Fig. 3.

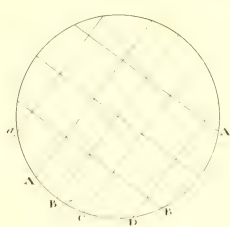
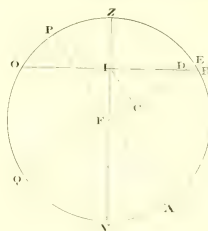
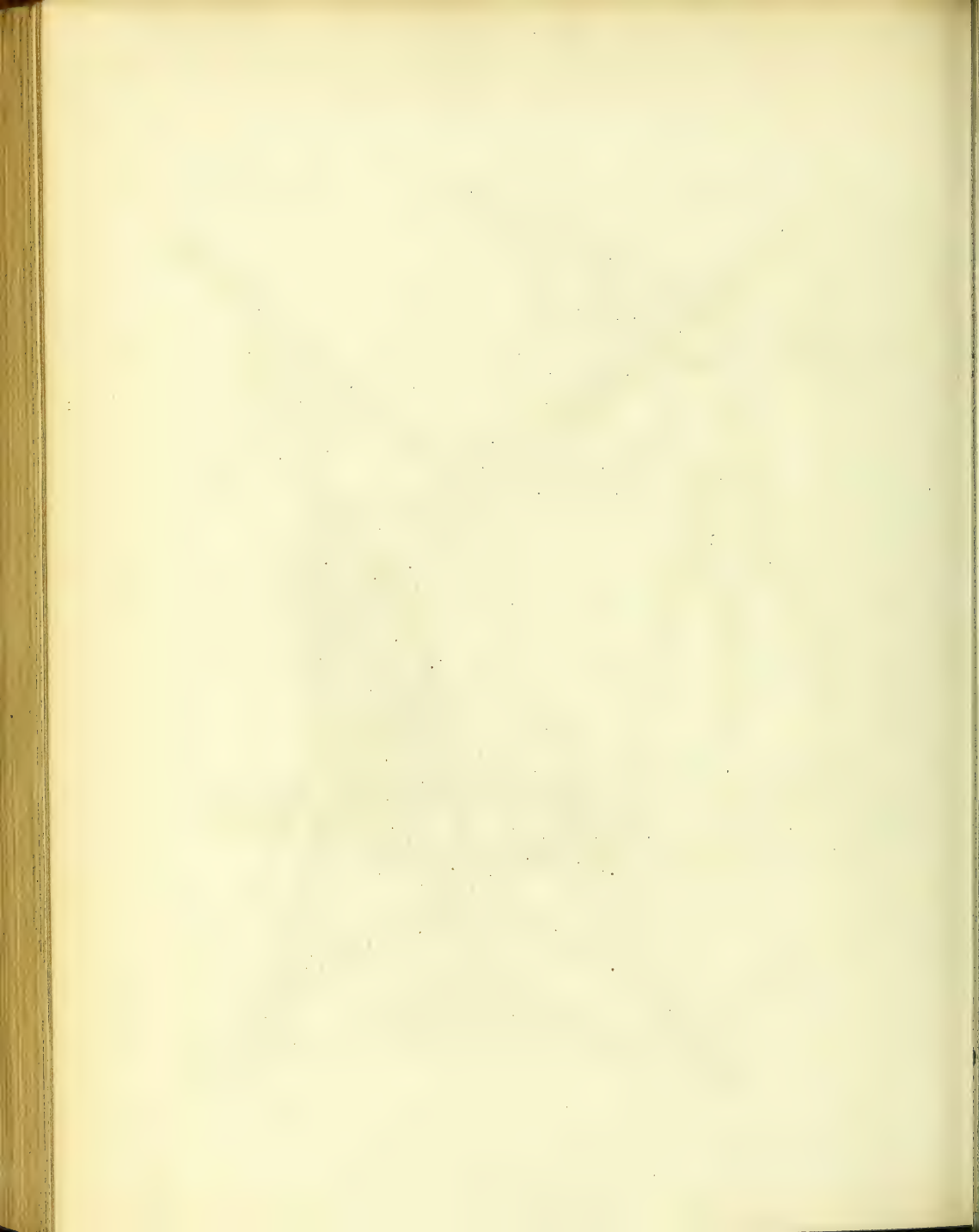


Fig. 4.

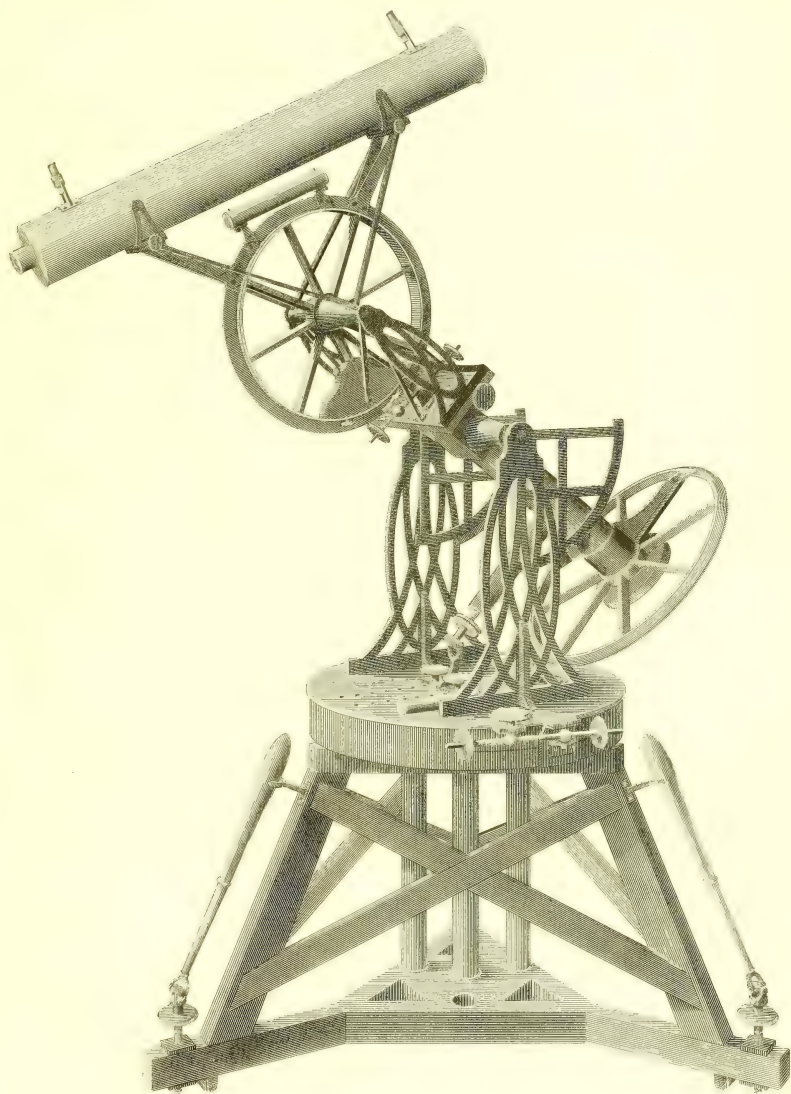


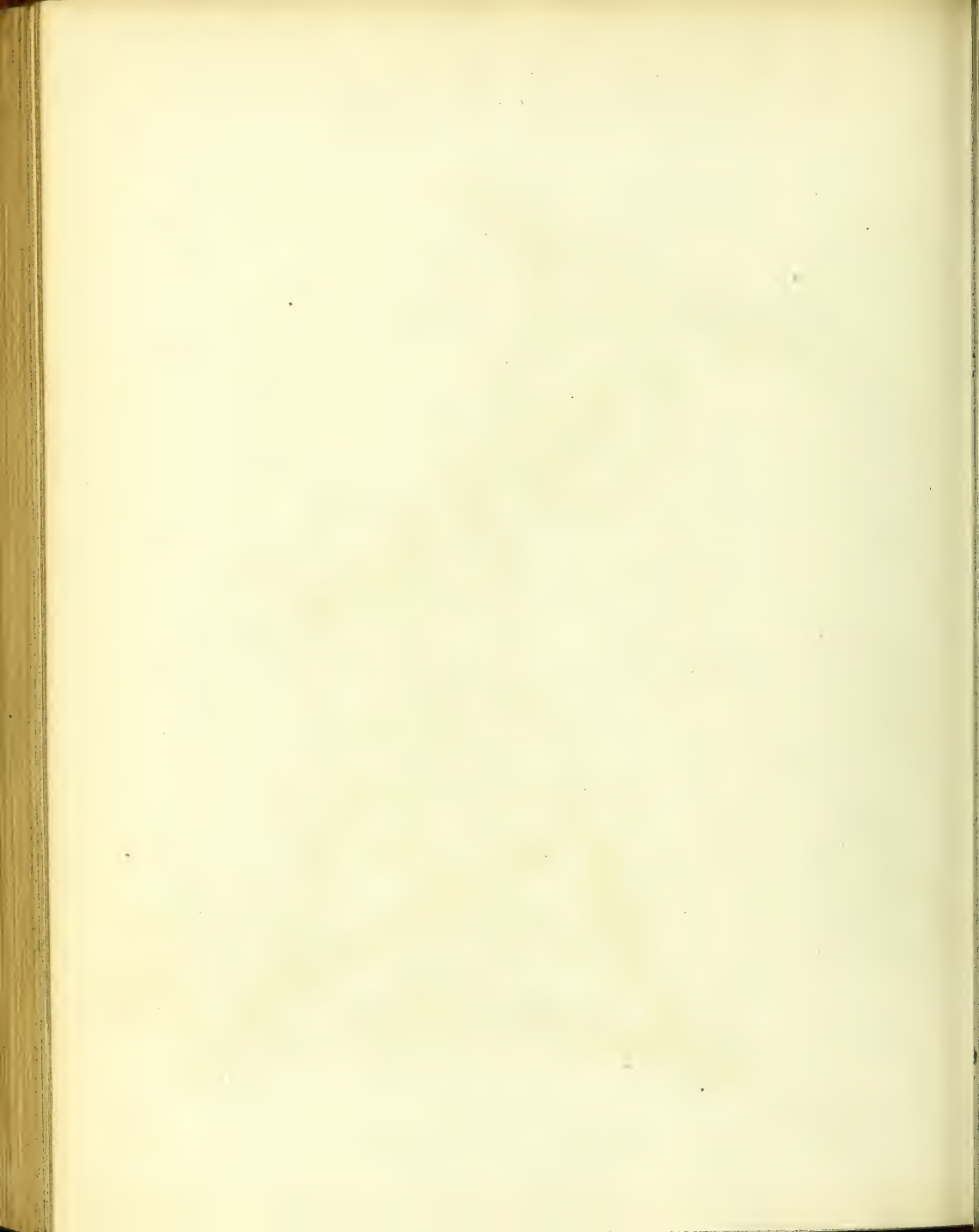


ASTRONOMICAL INSTRUMENTS.

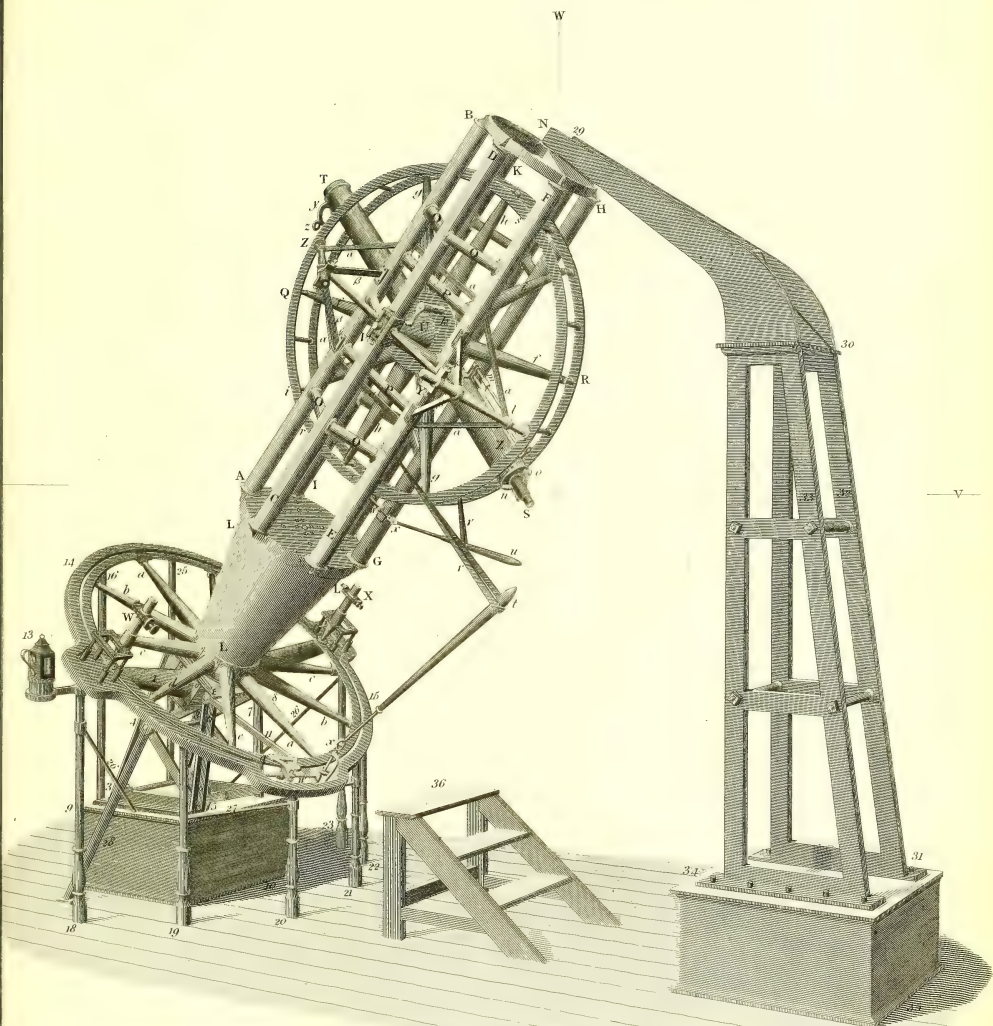
PLATE XIV.

Universal EQUATORIAL, Instrument by Troughton.



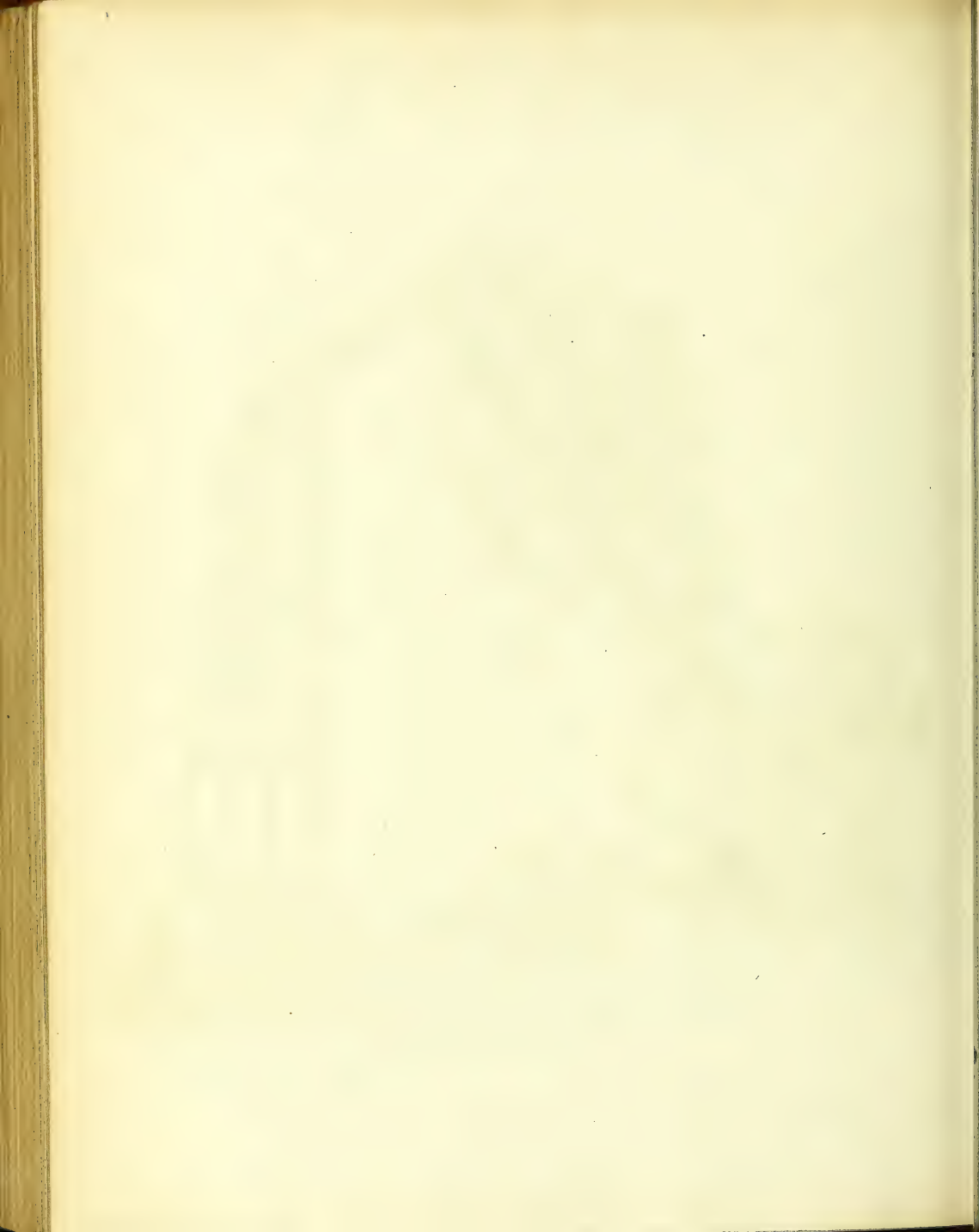


Equatorial Instrument made by Ramsden for Sir Geo.^e Shuckburgh.



In viewing this picture, the eye of the Spectator
should be placed at 12 inches perpendicular
distance from the intersections of the lines VV.WW.

W

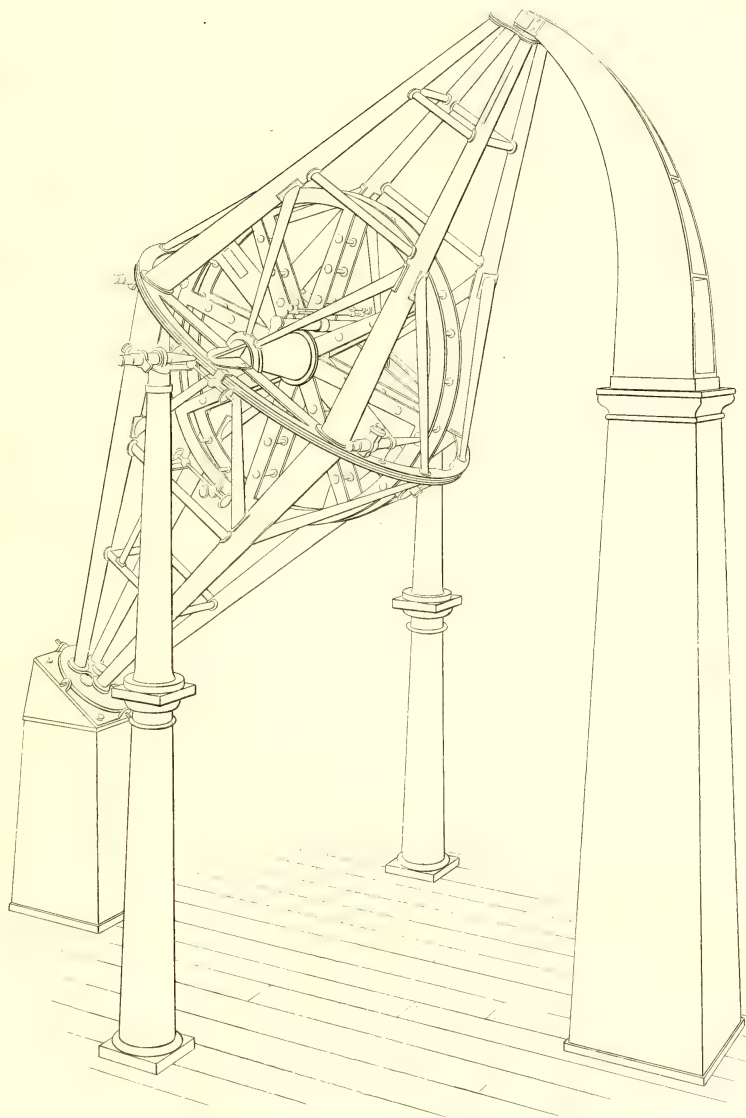


ASTRONOMICAL INSTRUMENTS.

PLATE XVI.

EQUATORIAL Instrument at Armagh.

made by Troughton.



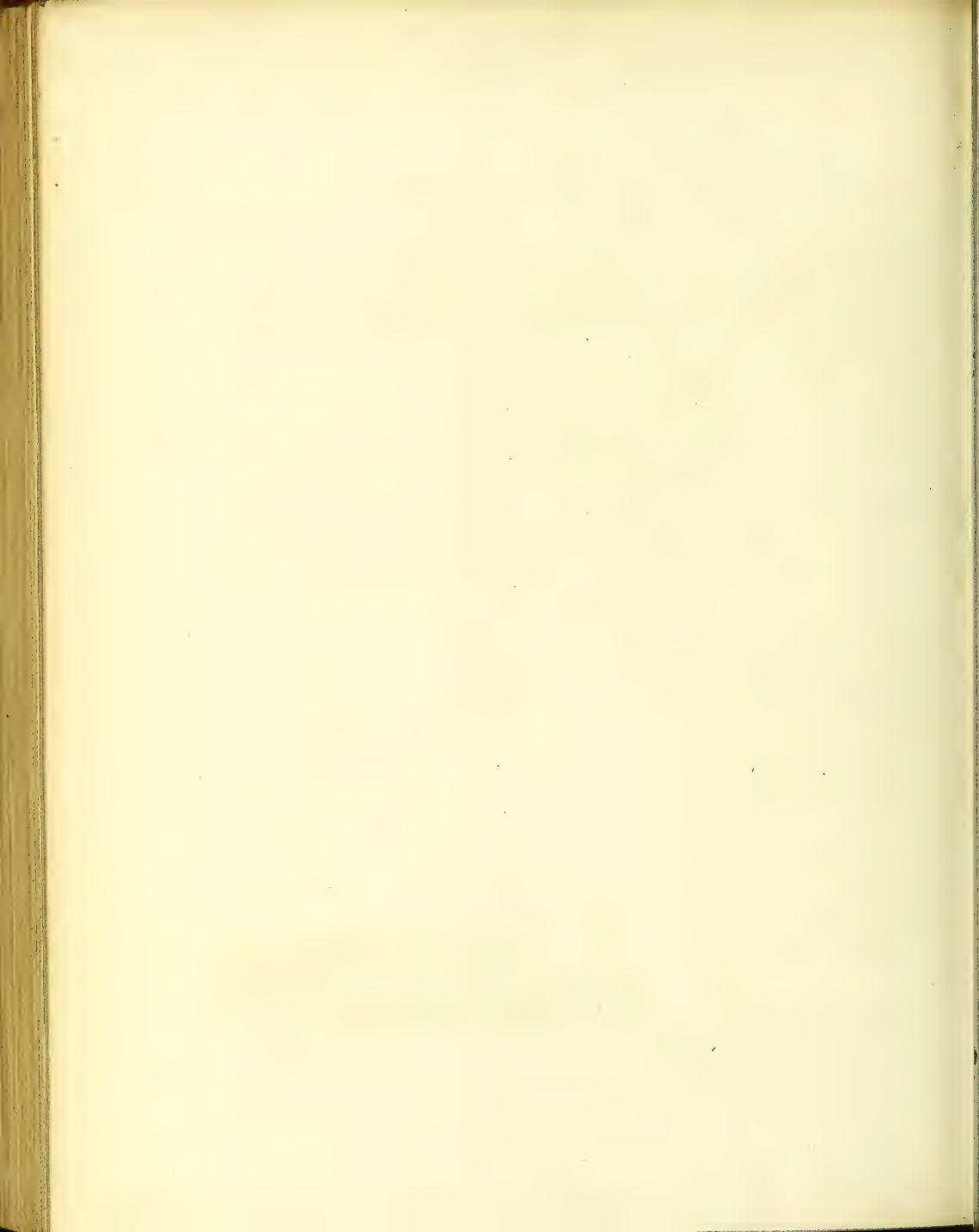


Fig. 1.
Sisson's Equatorial Sector.

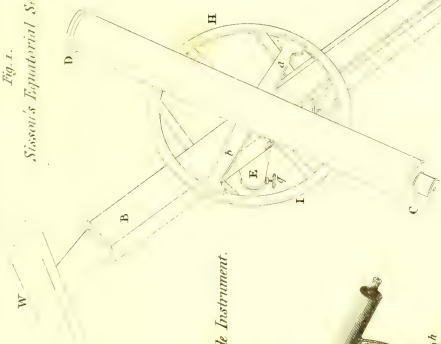
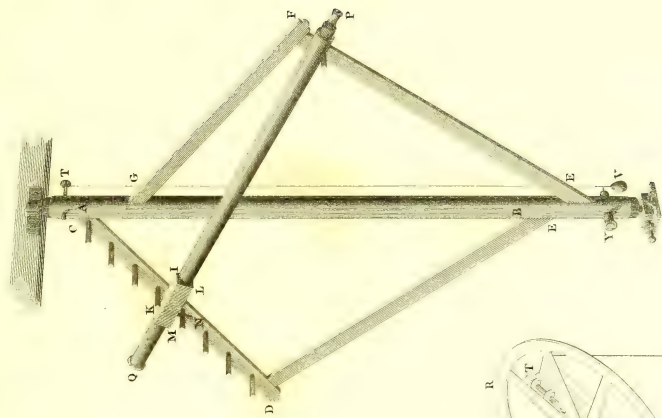


Fig. 3.



M. Cotes's Equal Altitude Instrument.

Fig. 3.

Earl of Macclesfield's Equal Altitude Instrument.

Fig. 4.

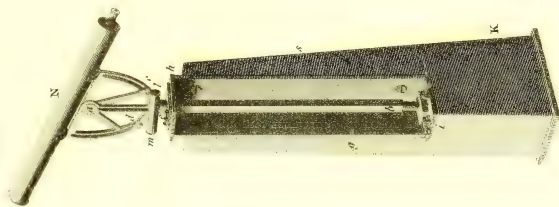
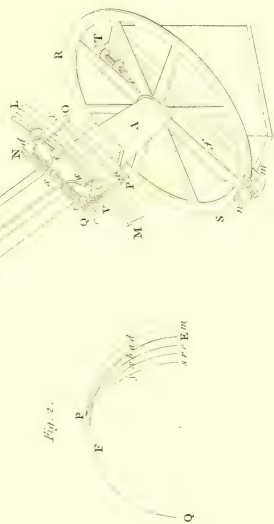


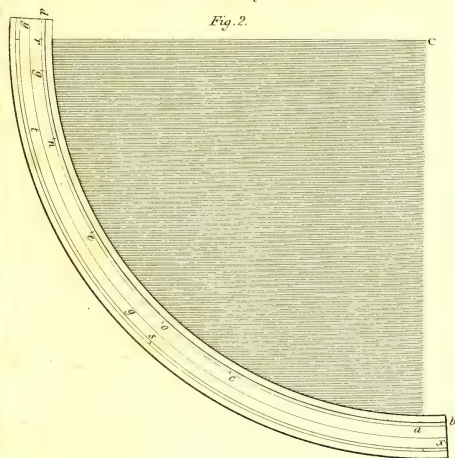
Fig. 2.





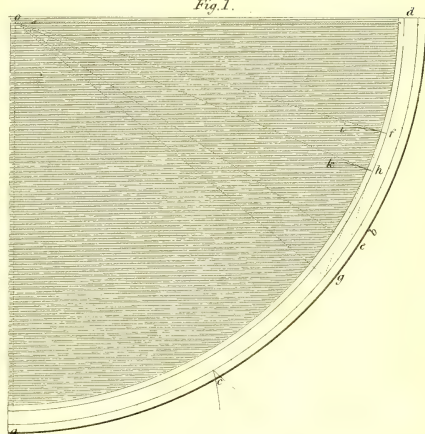
Division of Bird's Quadrant.

Fig. 2.



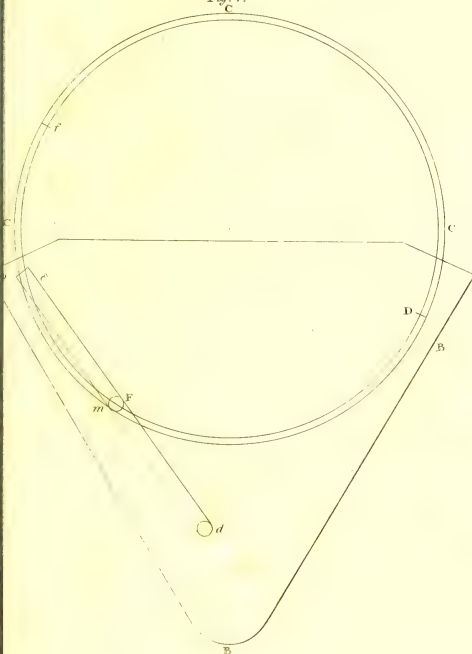
Division of Graham's Quadrant.

Fig. 1.



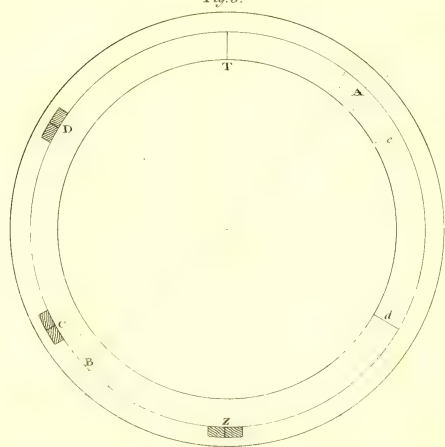
M^r Cavendish's Dividing.

Fig. 4.



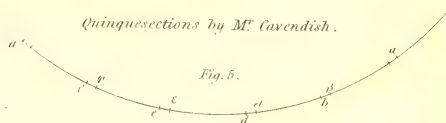
duc de Chaulne's Dividing.

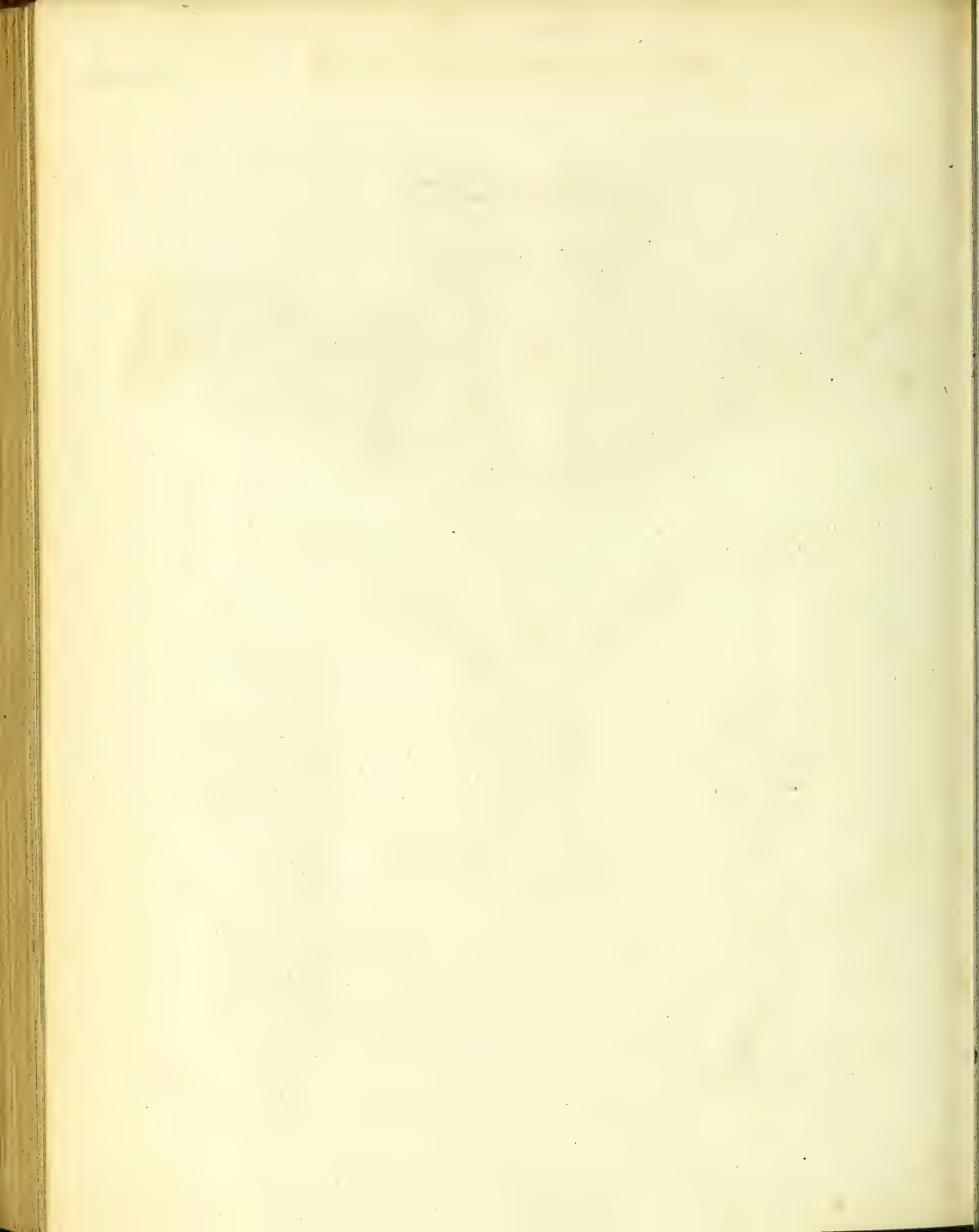
Fig. 3.



Quinquesections by M^r Cavendish.

Fig. 5.





ASTRONOMICAL INSTRUMENTS. GRADUATION.

PLATE XIX.

Troughton's method of Graduating a Circle.

Fig. 1.

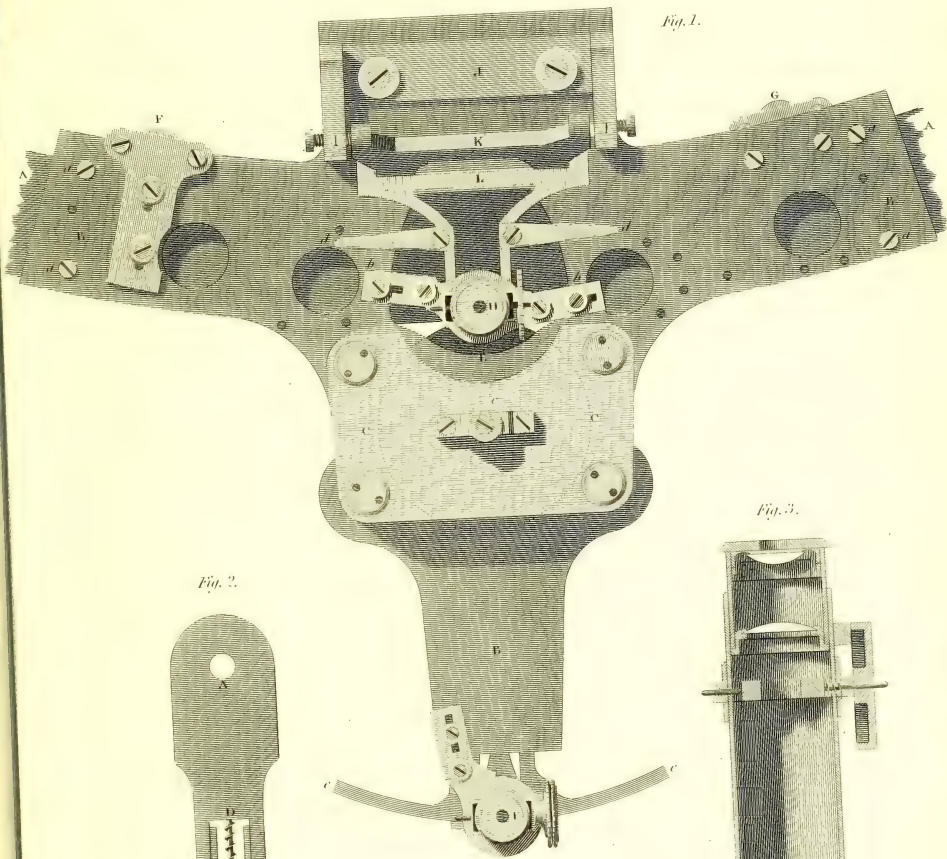


Fig. 2.

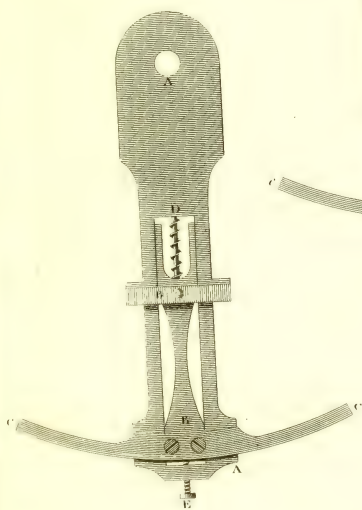
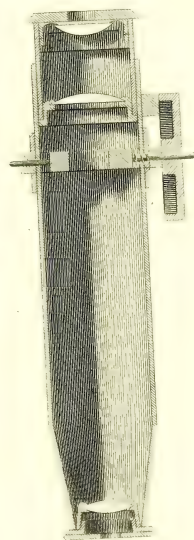
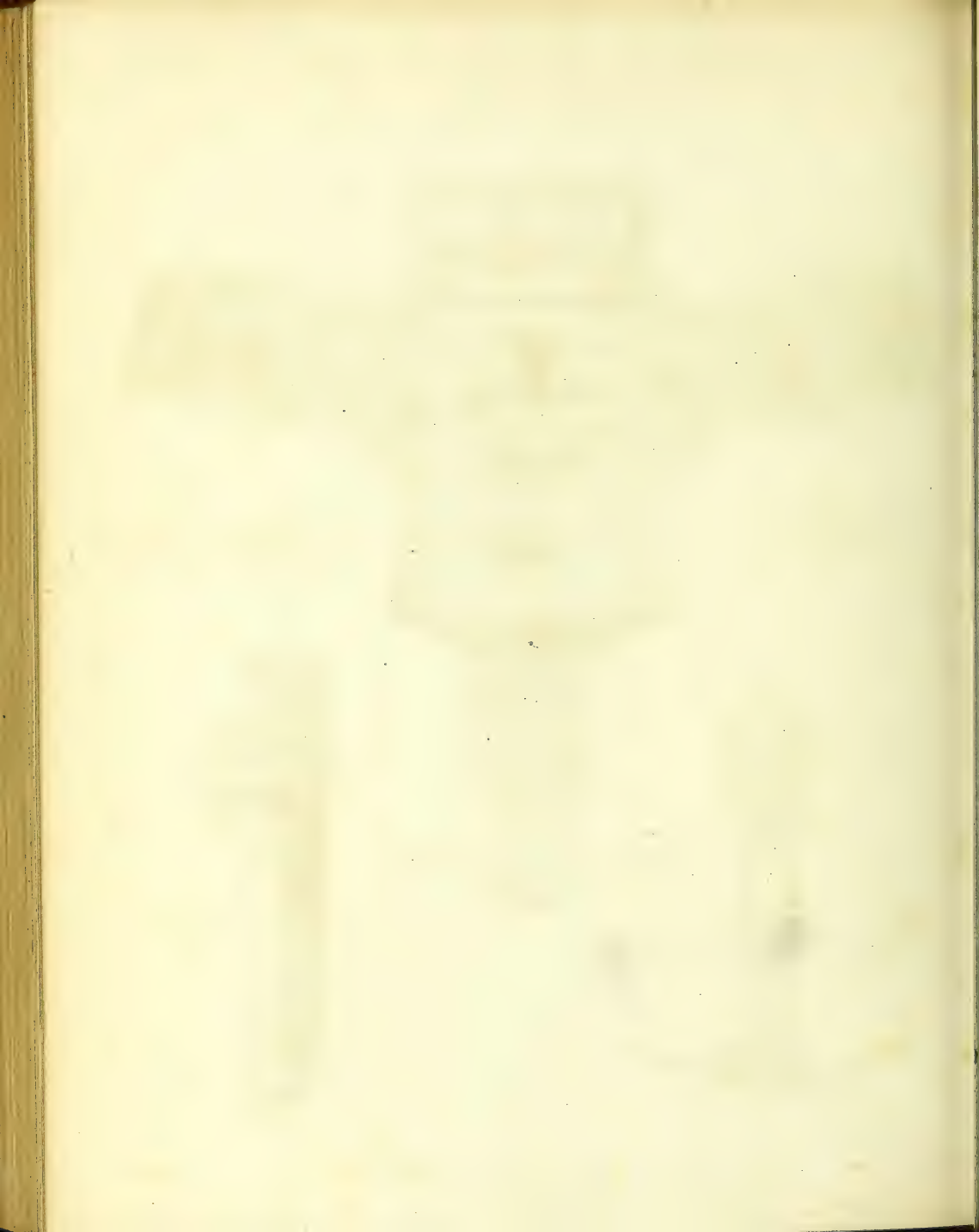


Fig. 3.





ASTRONOMICAL INSTRUMENTS

PLATE XX.

Troughton's method of Graduating a Circle.

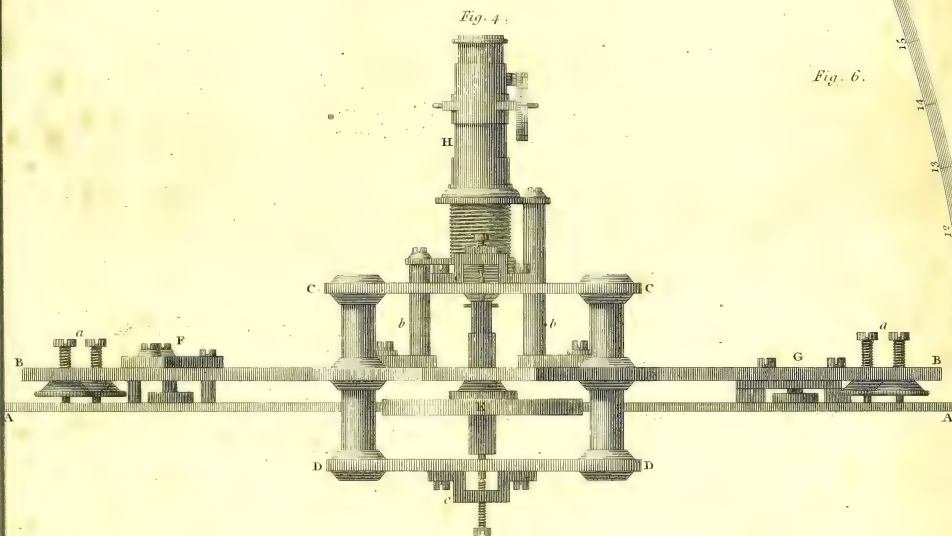
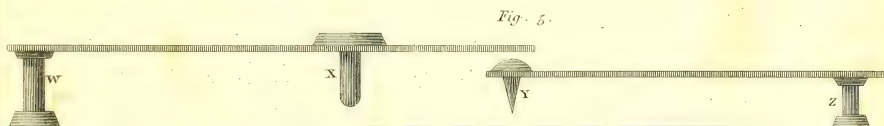


Fig. 6.



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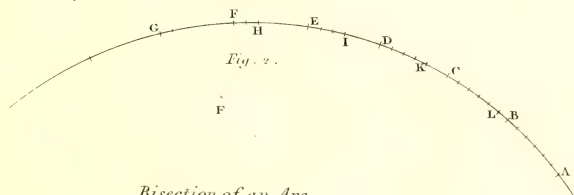
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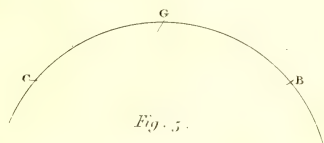
1847.

GRADUATION.

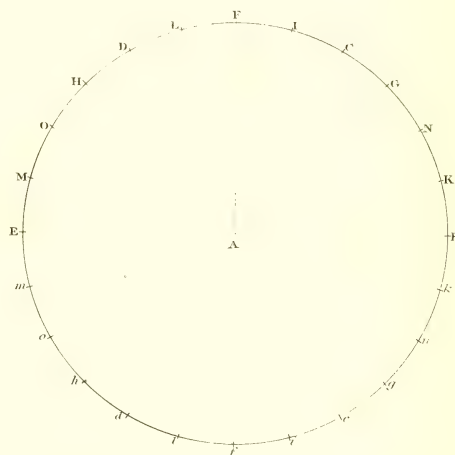
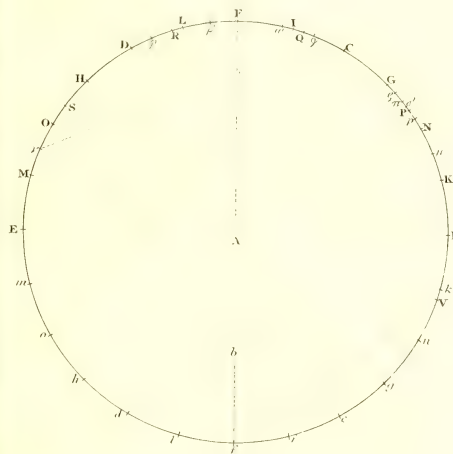
by Clavius

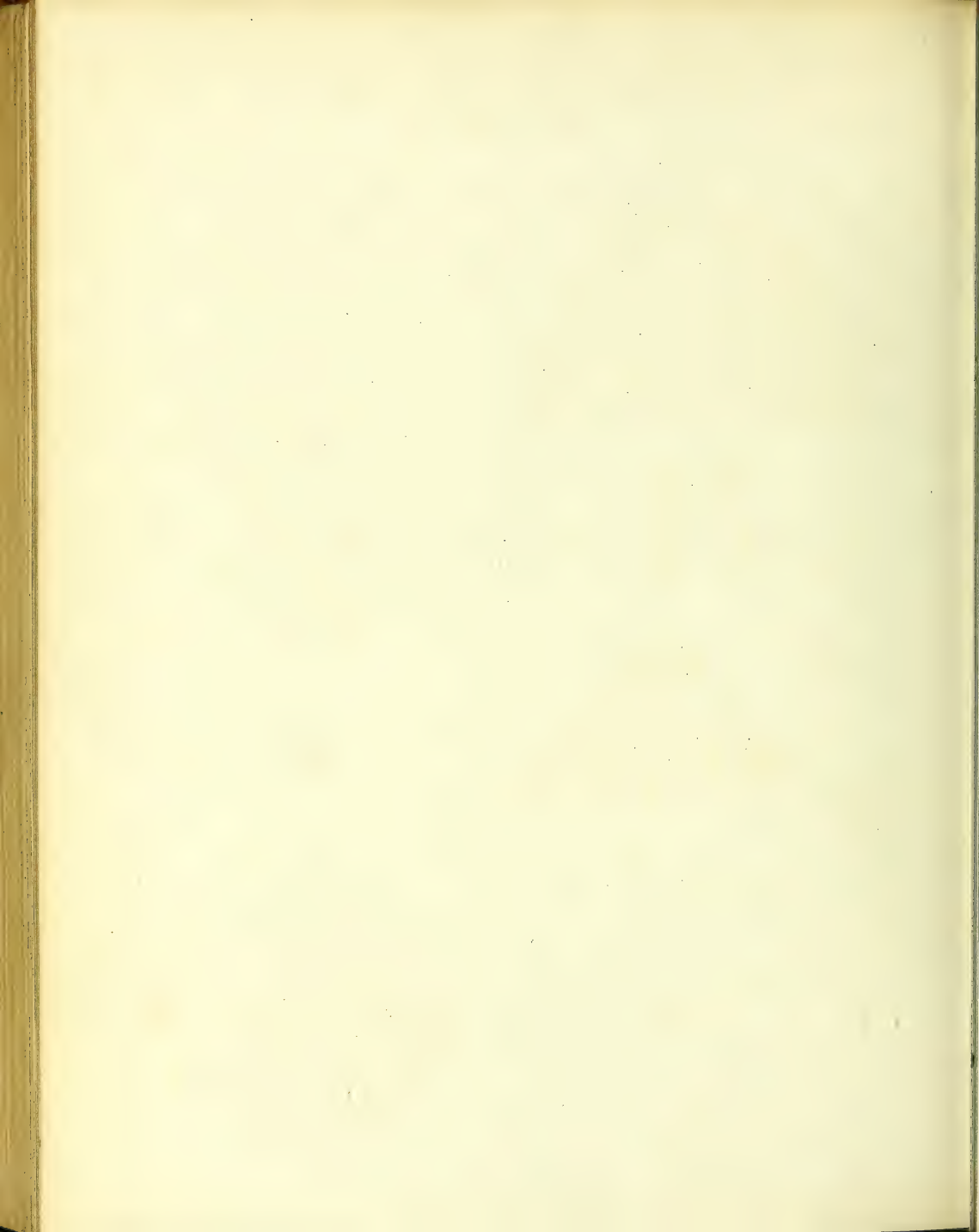


Bisection of an Arc.



by Mascheroni





ROTATIVE ROOF.

Rev.^d W. Pearson's.

Fig. 5.

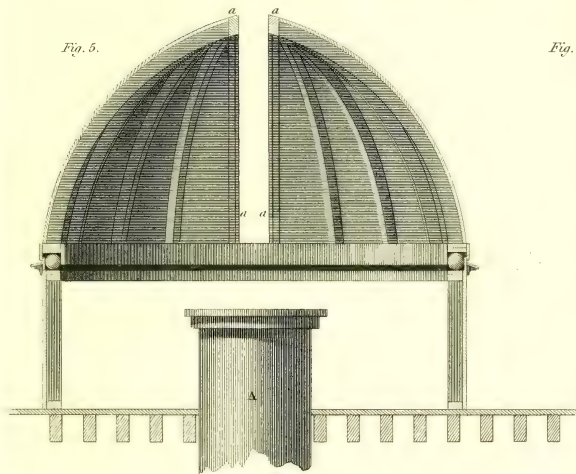


Fig. 6.

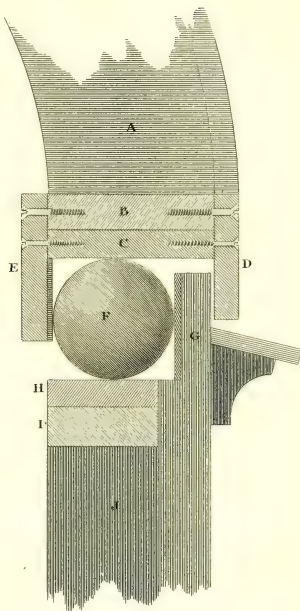
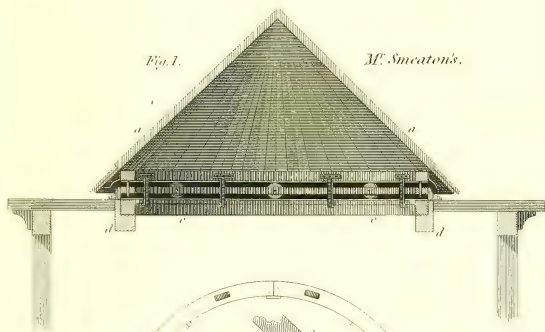


Fig. 1.

M^r. Smeaton's.



Section of the Lids.

Fig. 3.

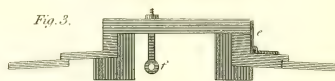


Fig. 2.

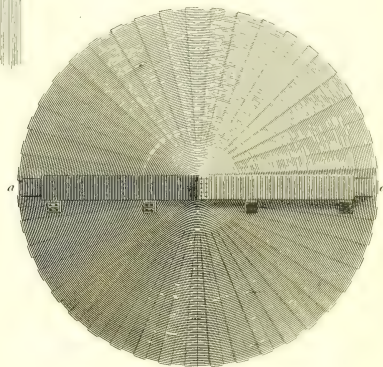
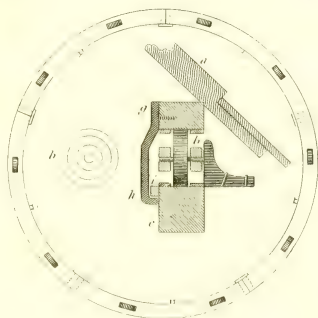
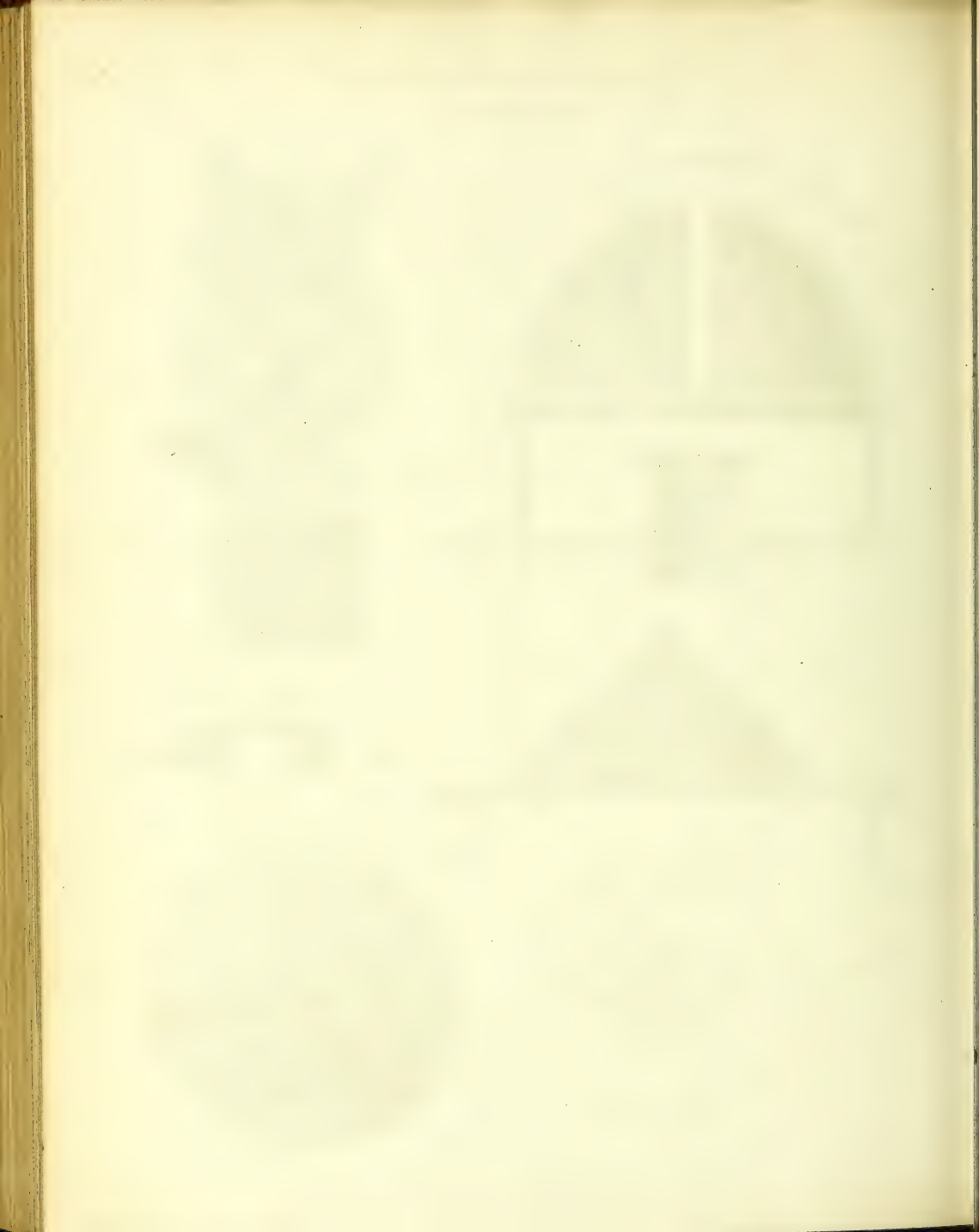


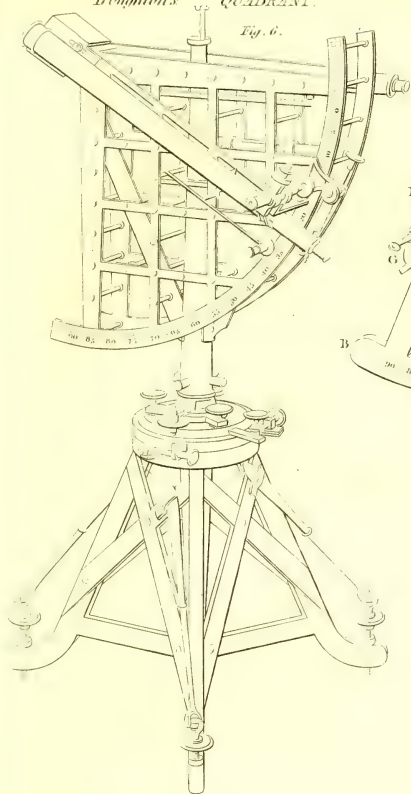
Fig. 4.





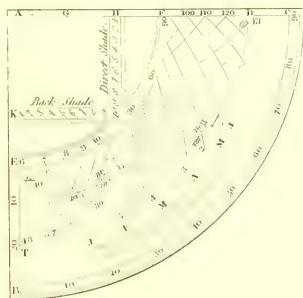
Troughton's QUADRANT.

Fig. 6.



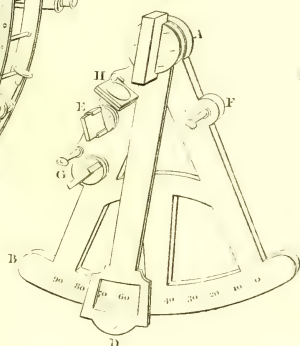
Gunter's QUADRANT.

Fig. 3.



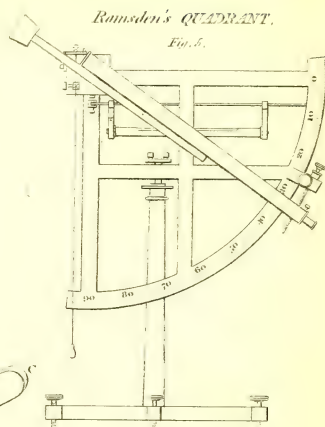
Halley's OCTANT.

Fig. 1.



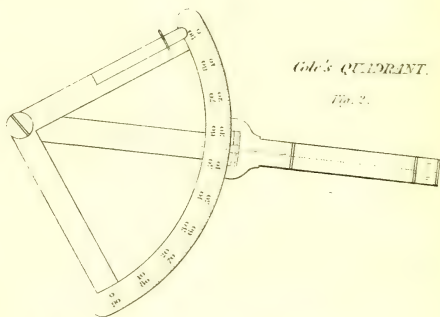
Ramsden's QUADRANT.

Fig. 5.



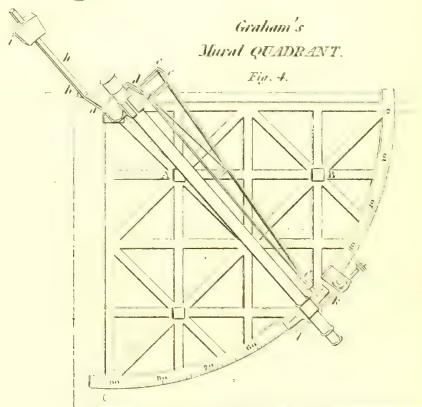
Gibb's QUADRANT.

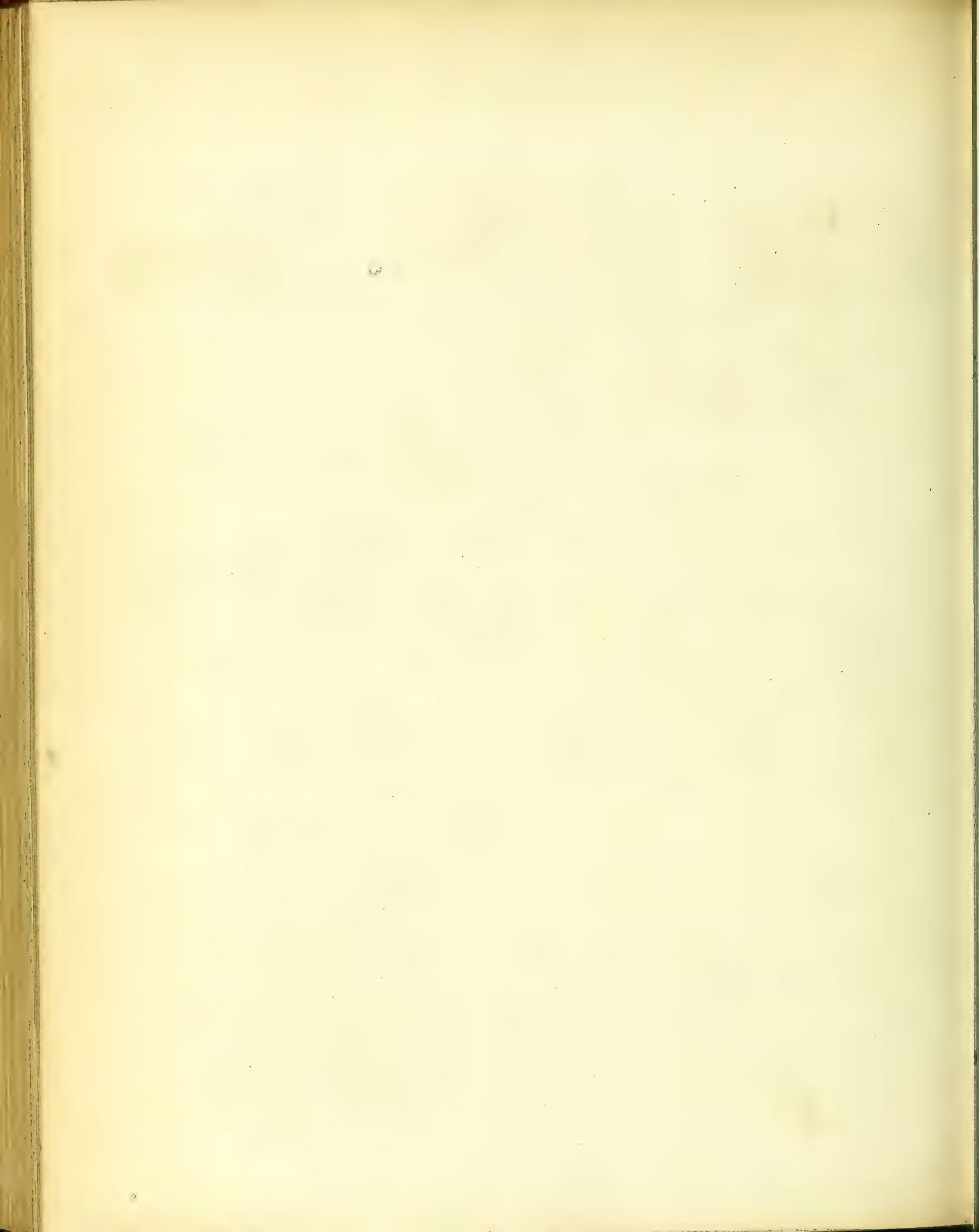
Fig. 2.



Graham's
Mural QUADRANT.

Fig. 4.





ASTRONOMICAL INSTRUMENTS.

Theory of the refracting TELESCOPE, and compound MICROSCOPE.

PLATE XXIV.

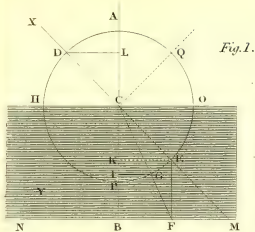


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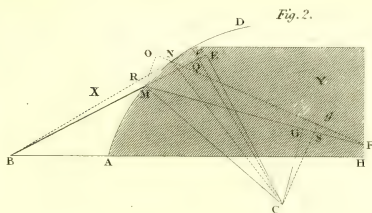


Fig. 2.

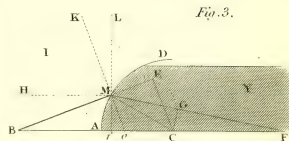


Fig. 3.

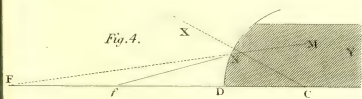


Fig. 4.

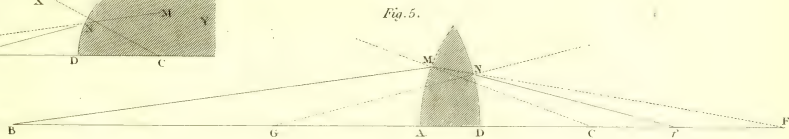


Fig. 5.

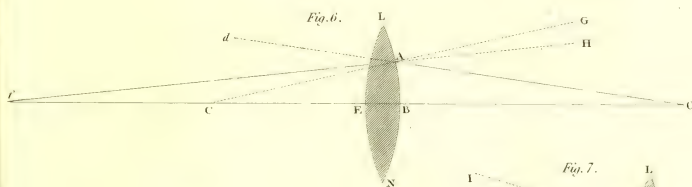


Fig. 6.

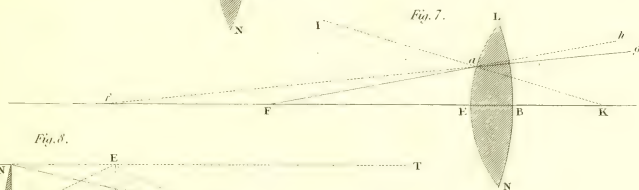


Fig. 7.

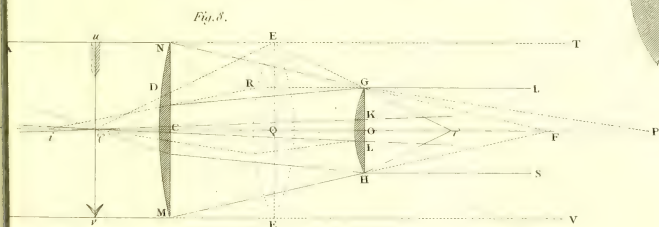


Fig. 8.

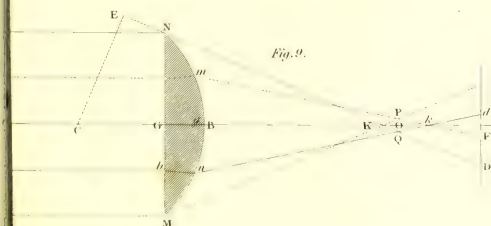


Fig. 9.

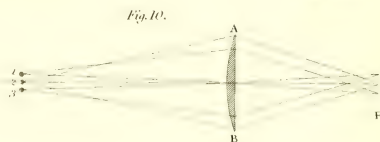


Fig. 10.

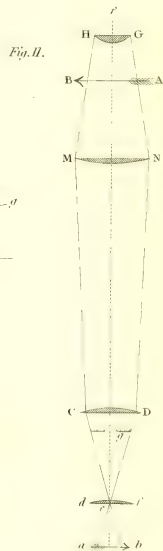
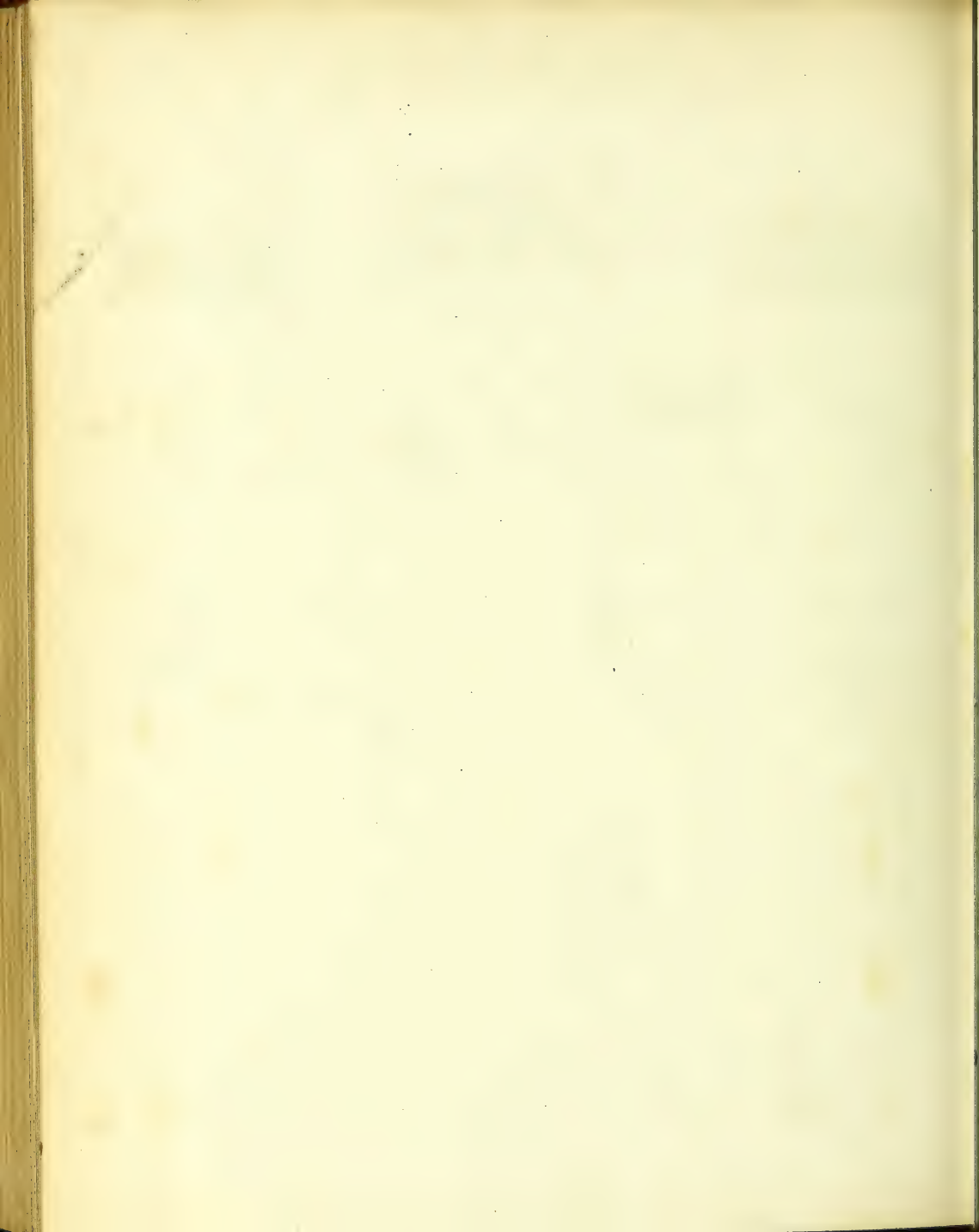
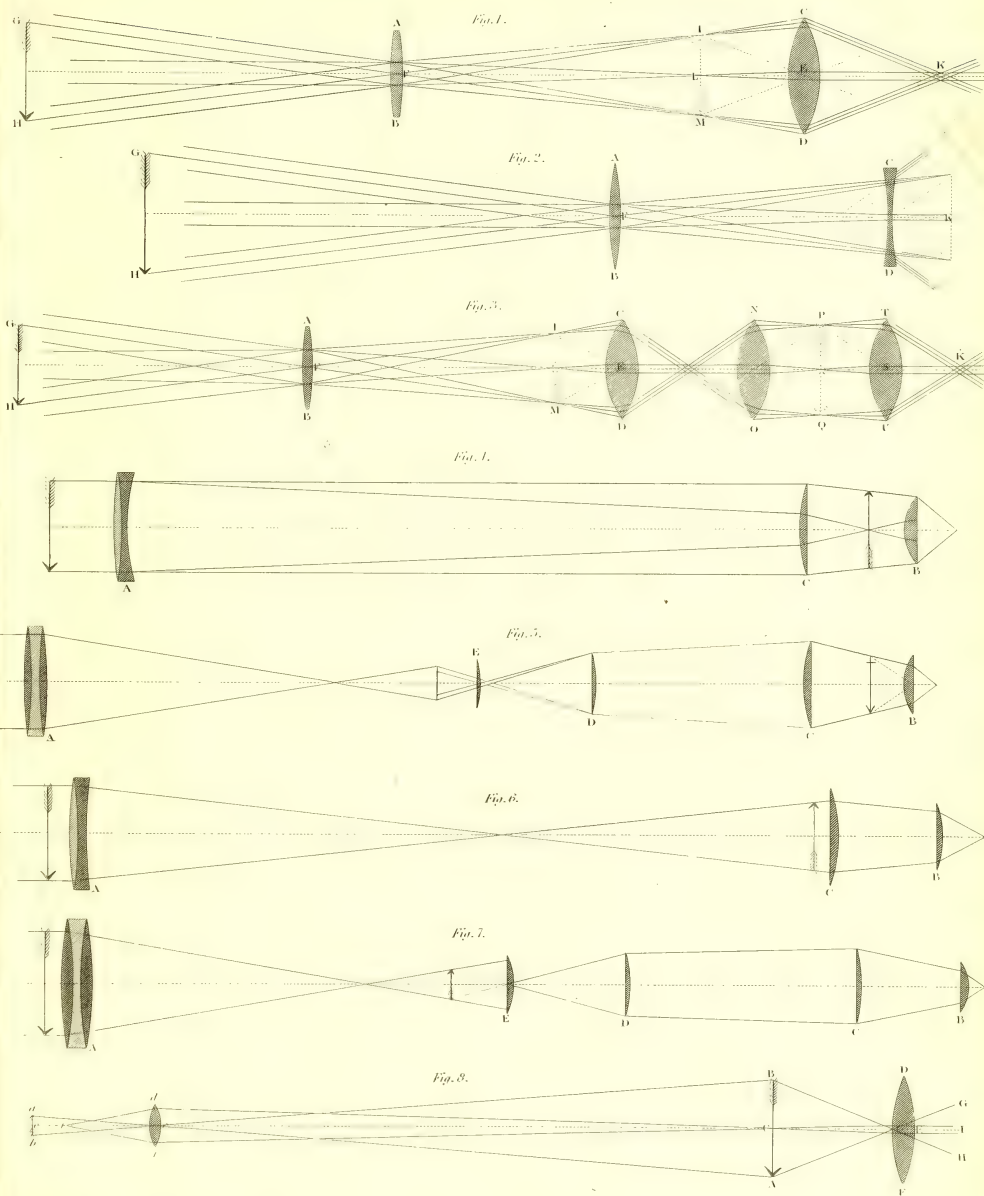
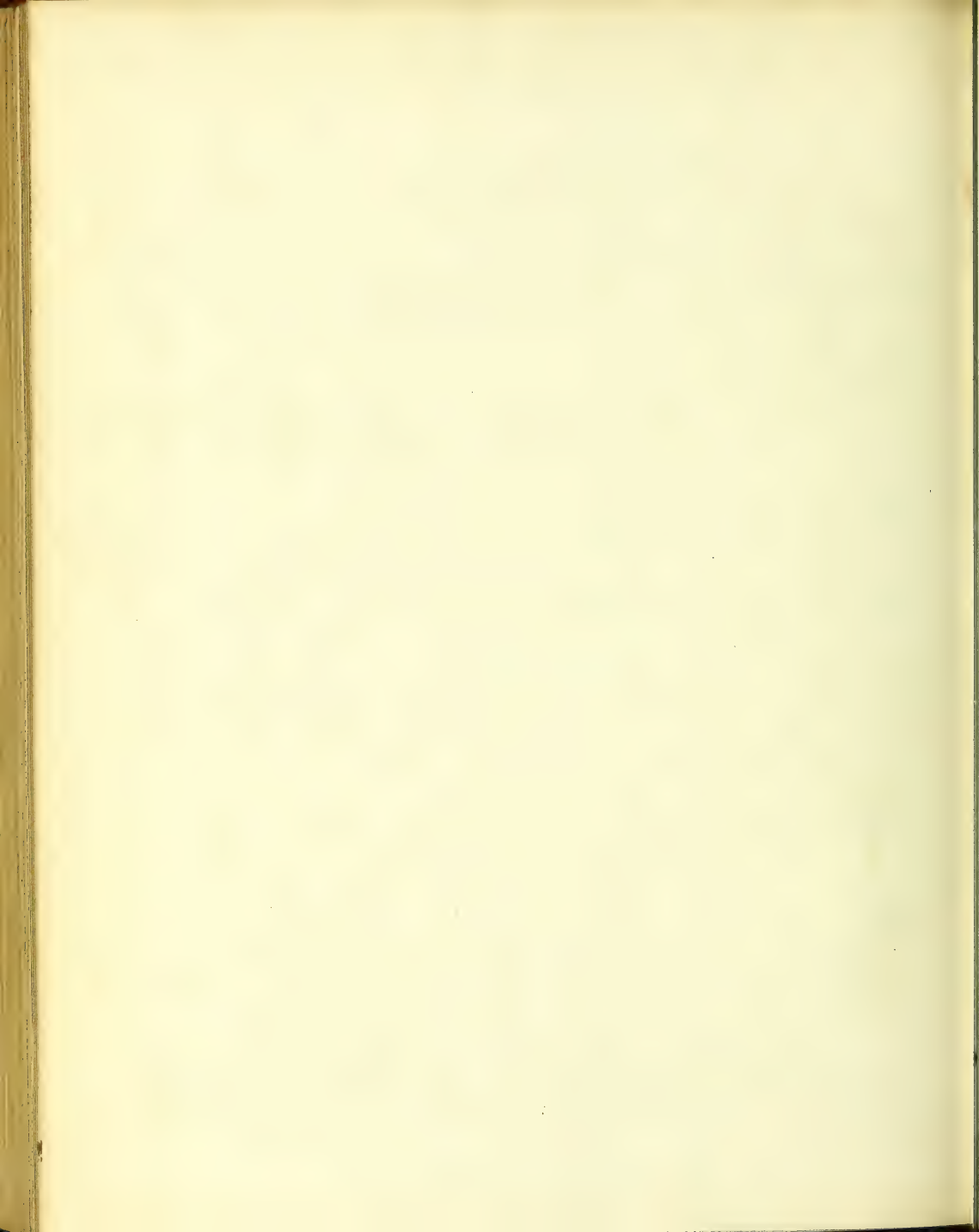


Fig. 11.

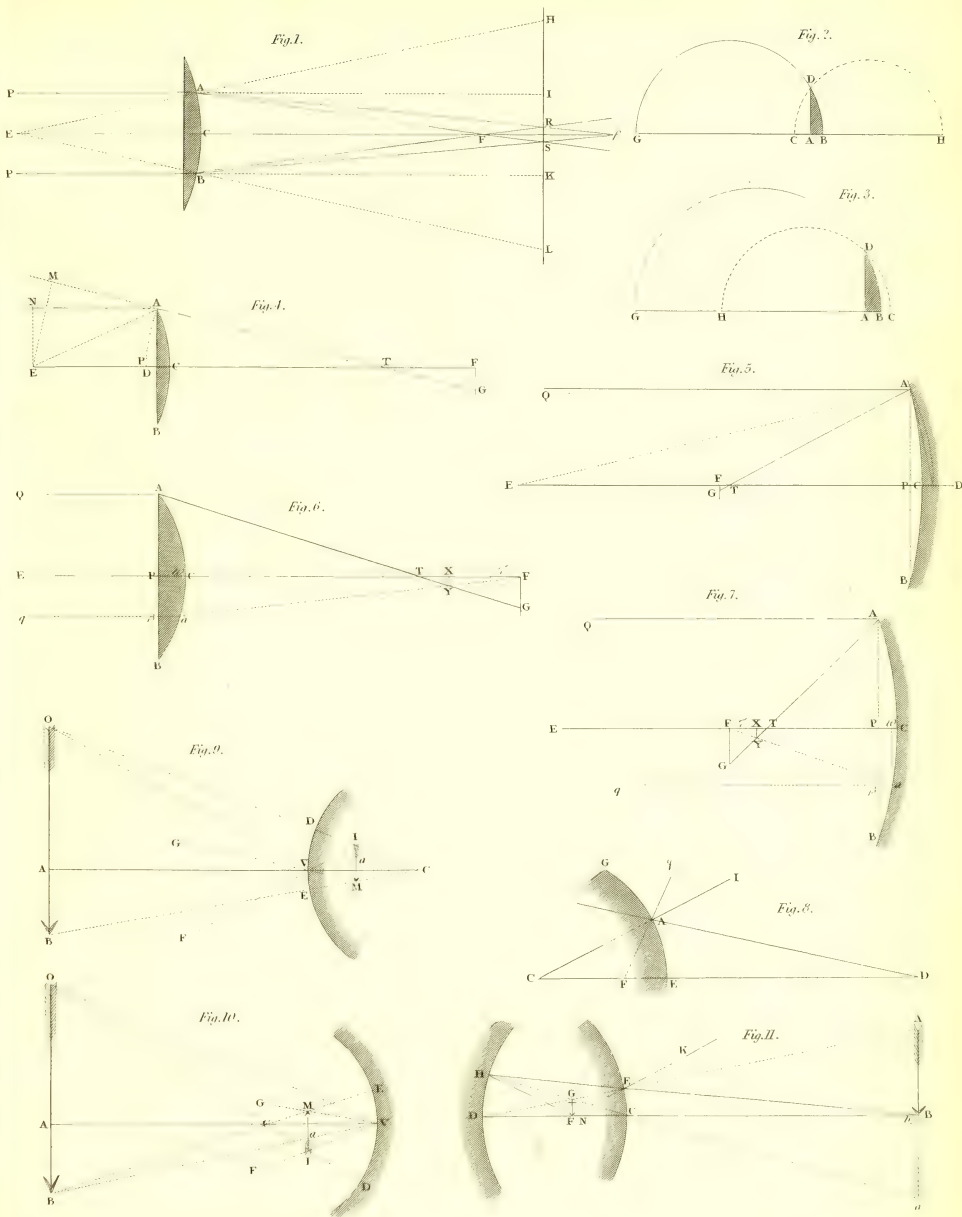


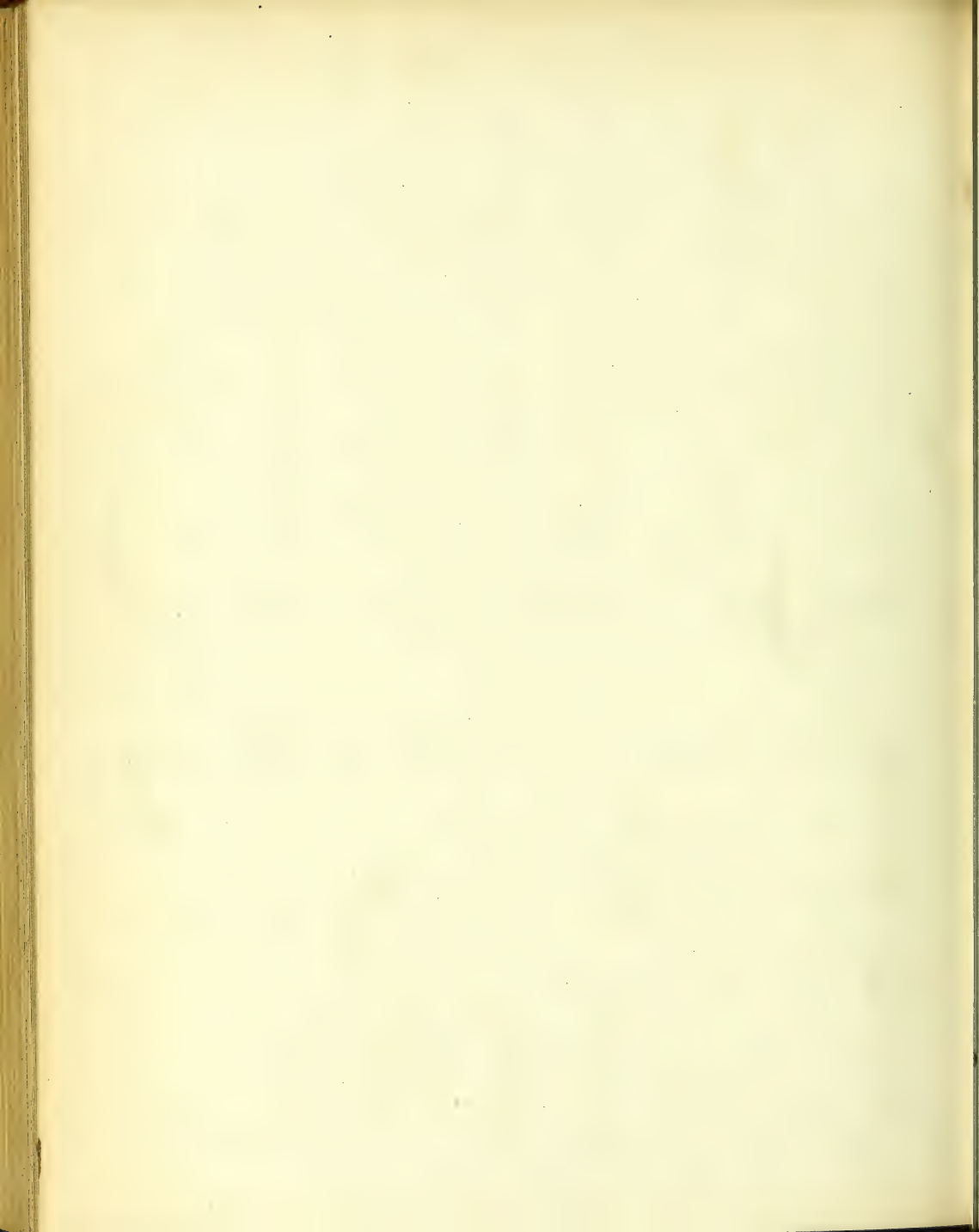
The Theory of refracting TELESCOPES, and of the compound MICROSCOPE.





Theory of the TELESCOPE with respect to aberrations &c.





Theory of Reflecting TELESCOPES.

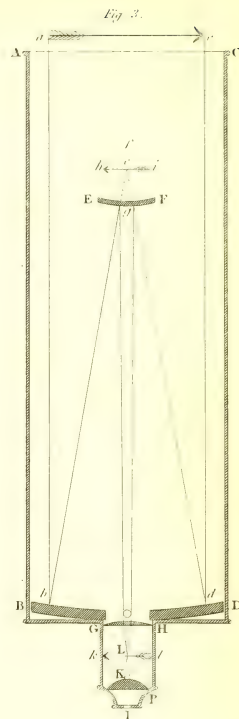
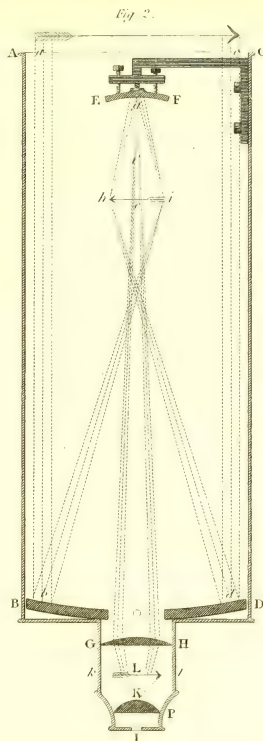
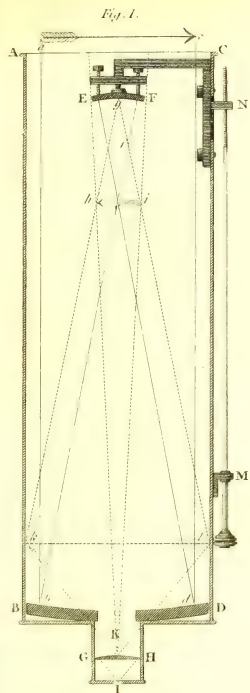


Fig. 4.

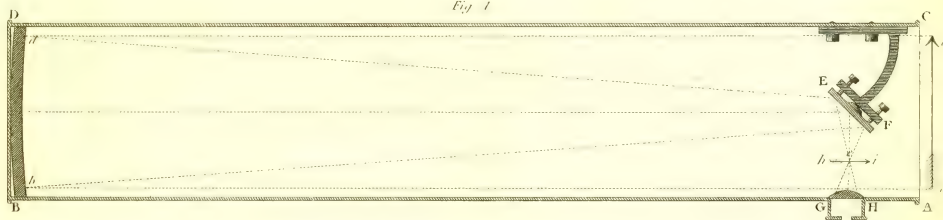
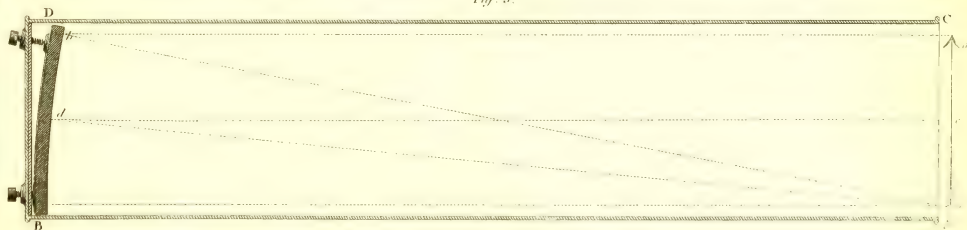
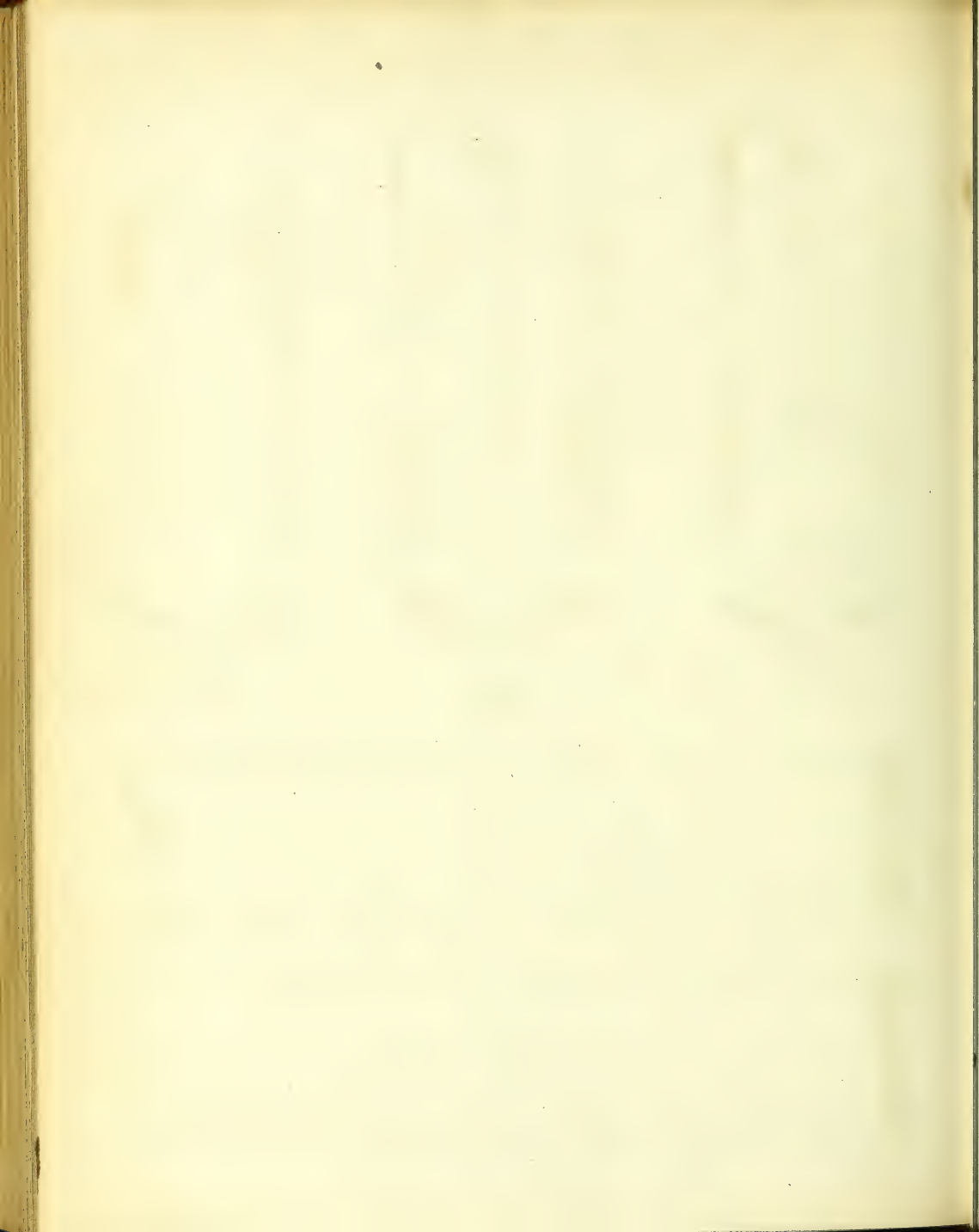


Fig. 5.

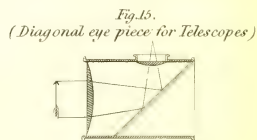
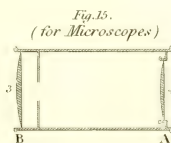
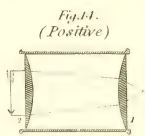
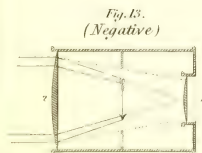
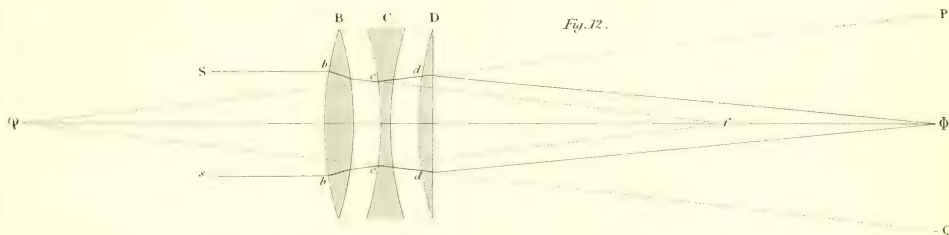
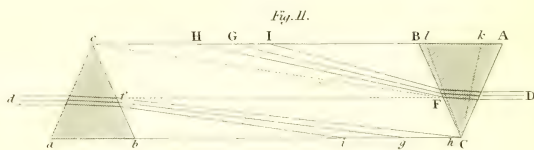
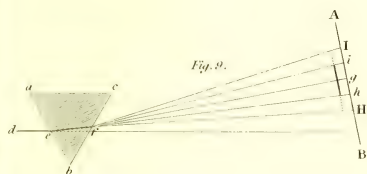
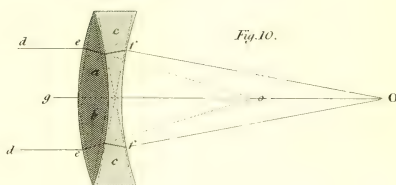
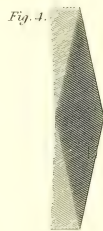
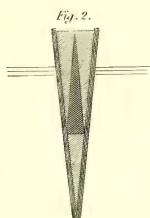
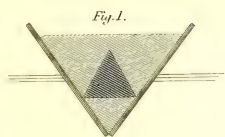


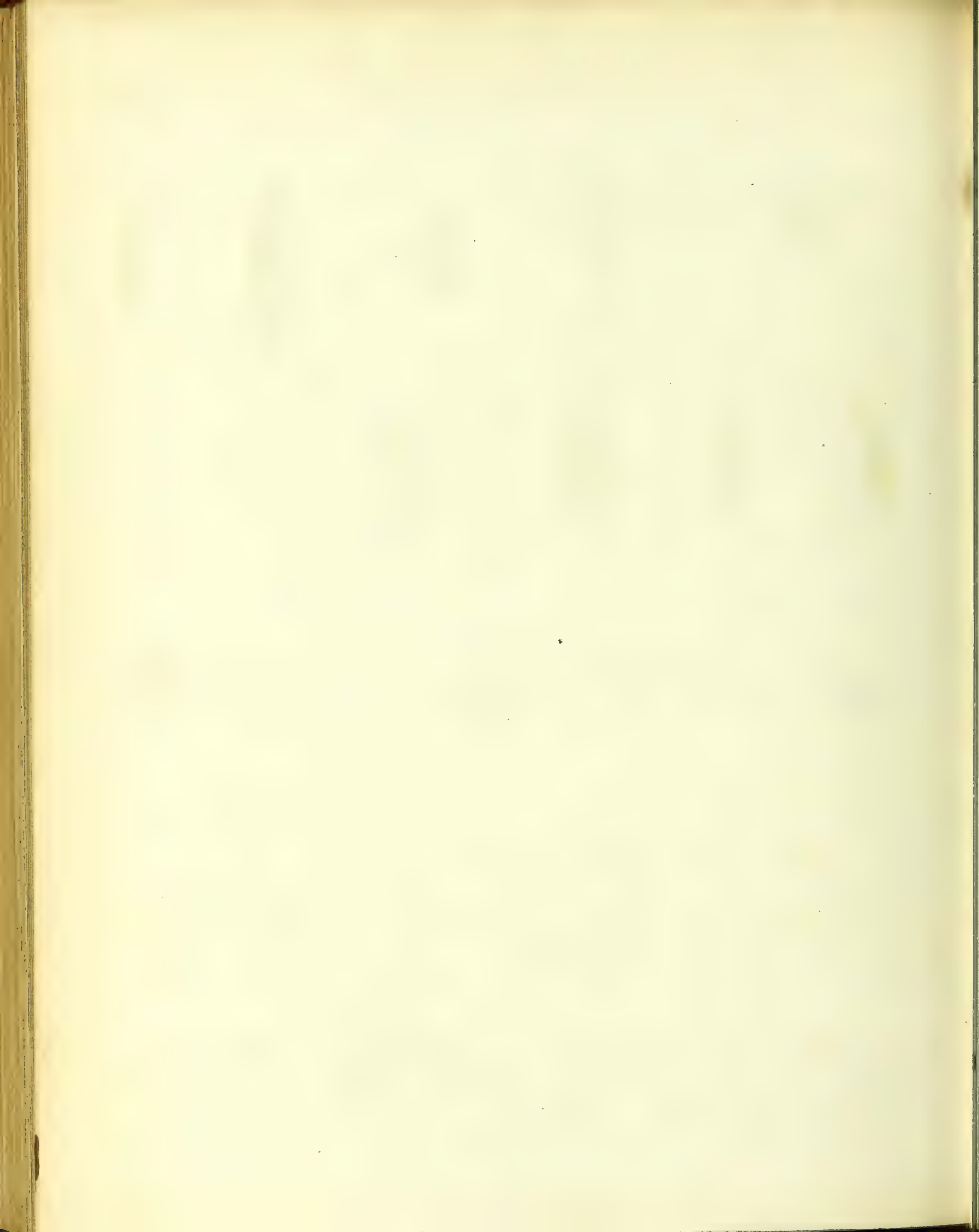


ASTRONOMICAL INSTRUMENTS.

PLATE XXVIII.

Principles of Achromatic TELESCOPES.

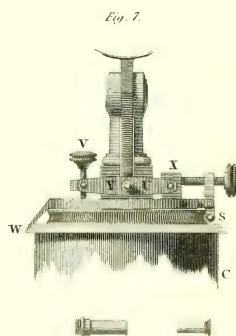
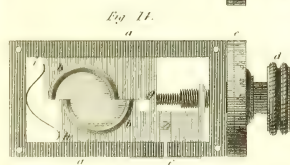
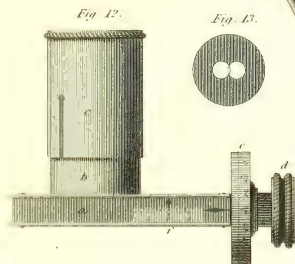
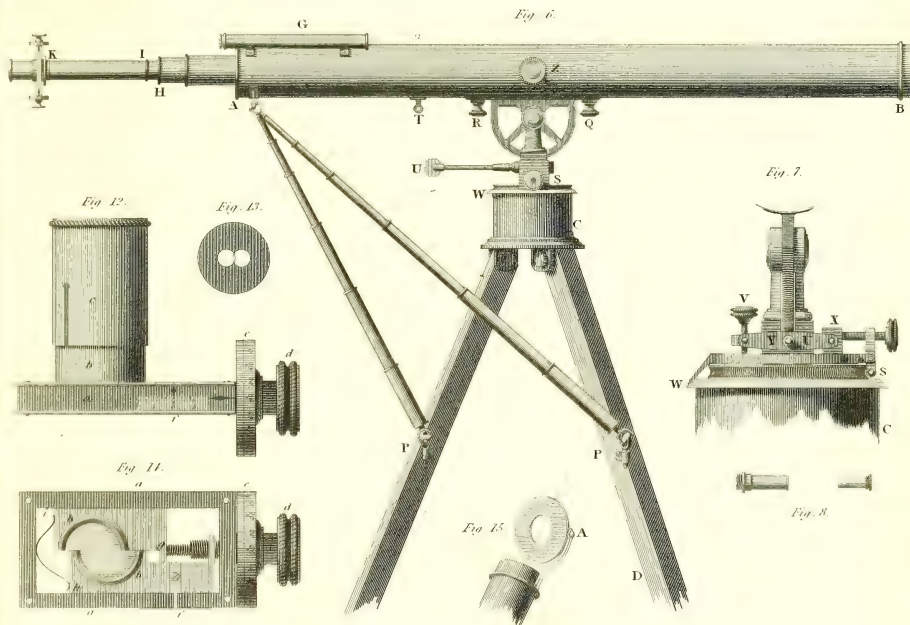
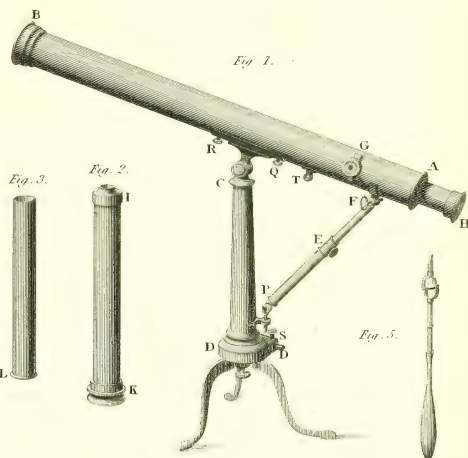
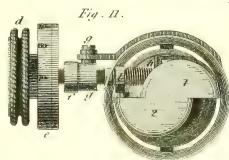
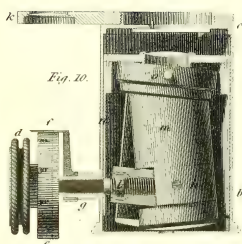
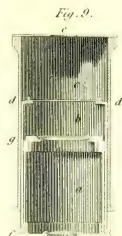


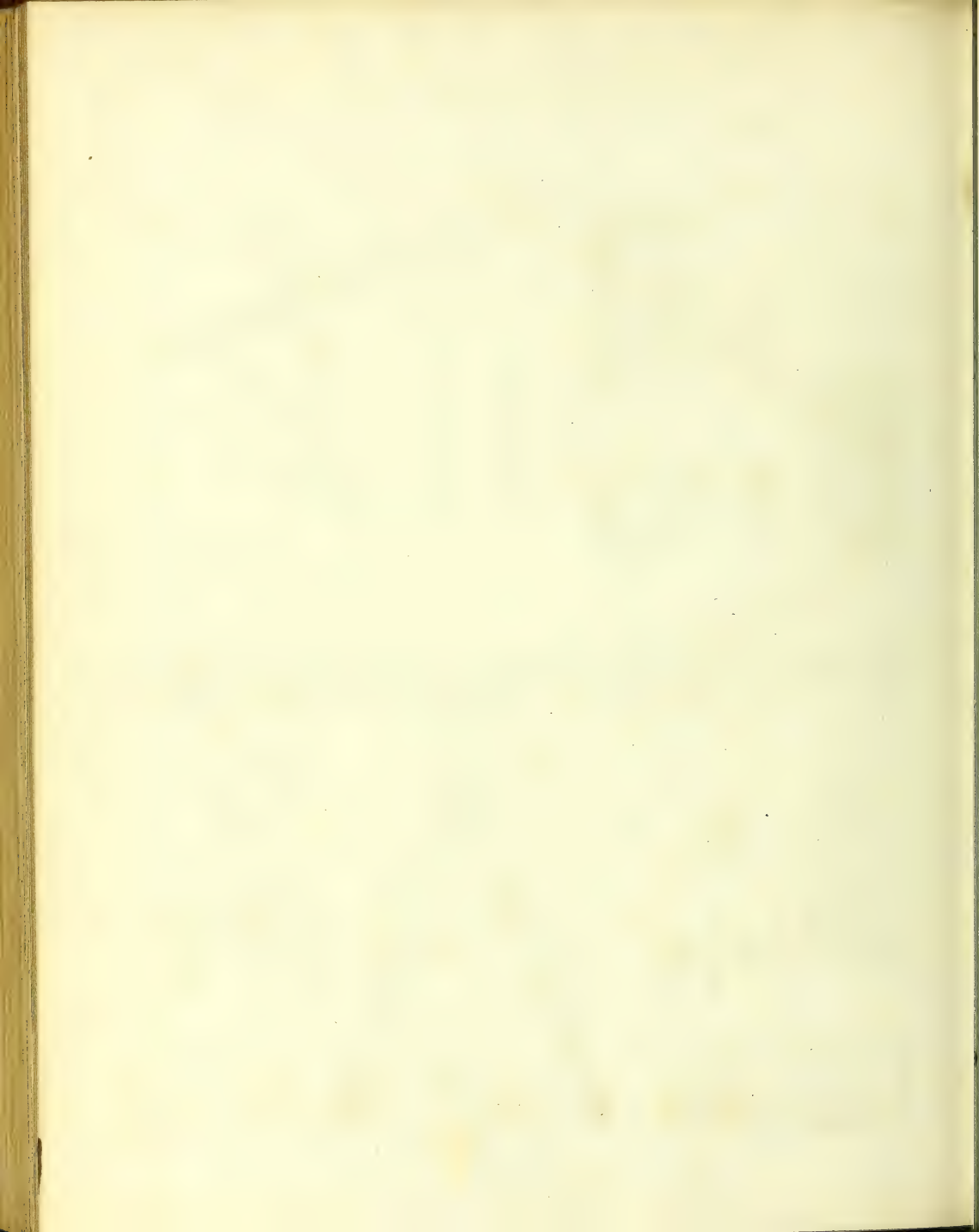


ASTRONOMICAL INSTRUMENTS.

ACHROMATIC TELESCOPES and DYNAMETERS.

PLATE XXIX.





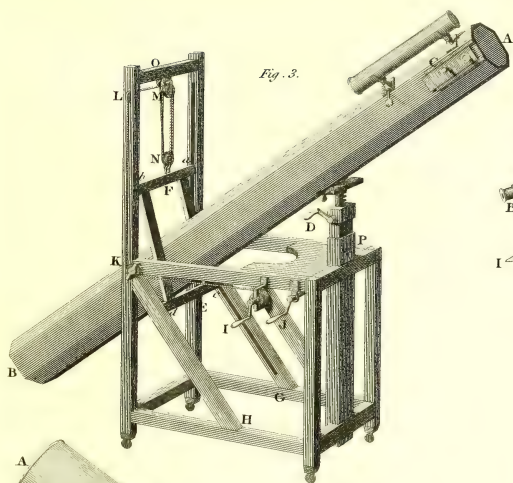


Fig. 3.

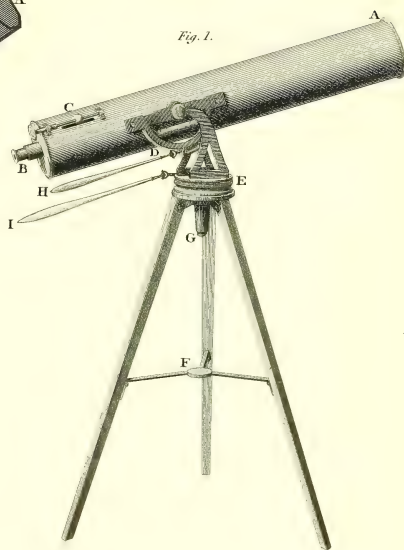


Fig. 1.

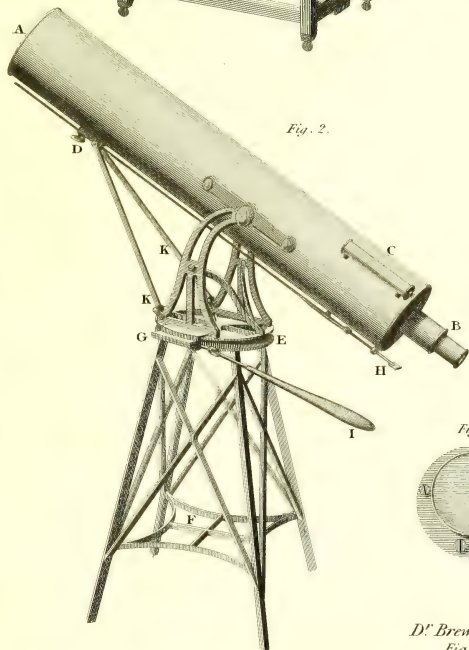


Fig. 2.



Fig. 6.



Fig. 7.

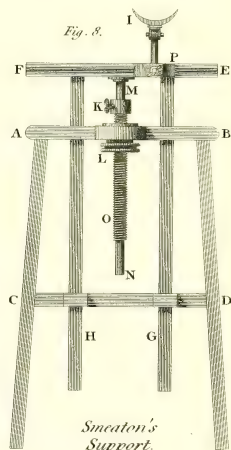


Fig. 8.

Sinaton's Support.

D^r Brewster's Patent.
Fig. 4.

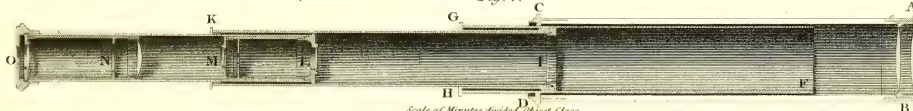
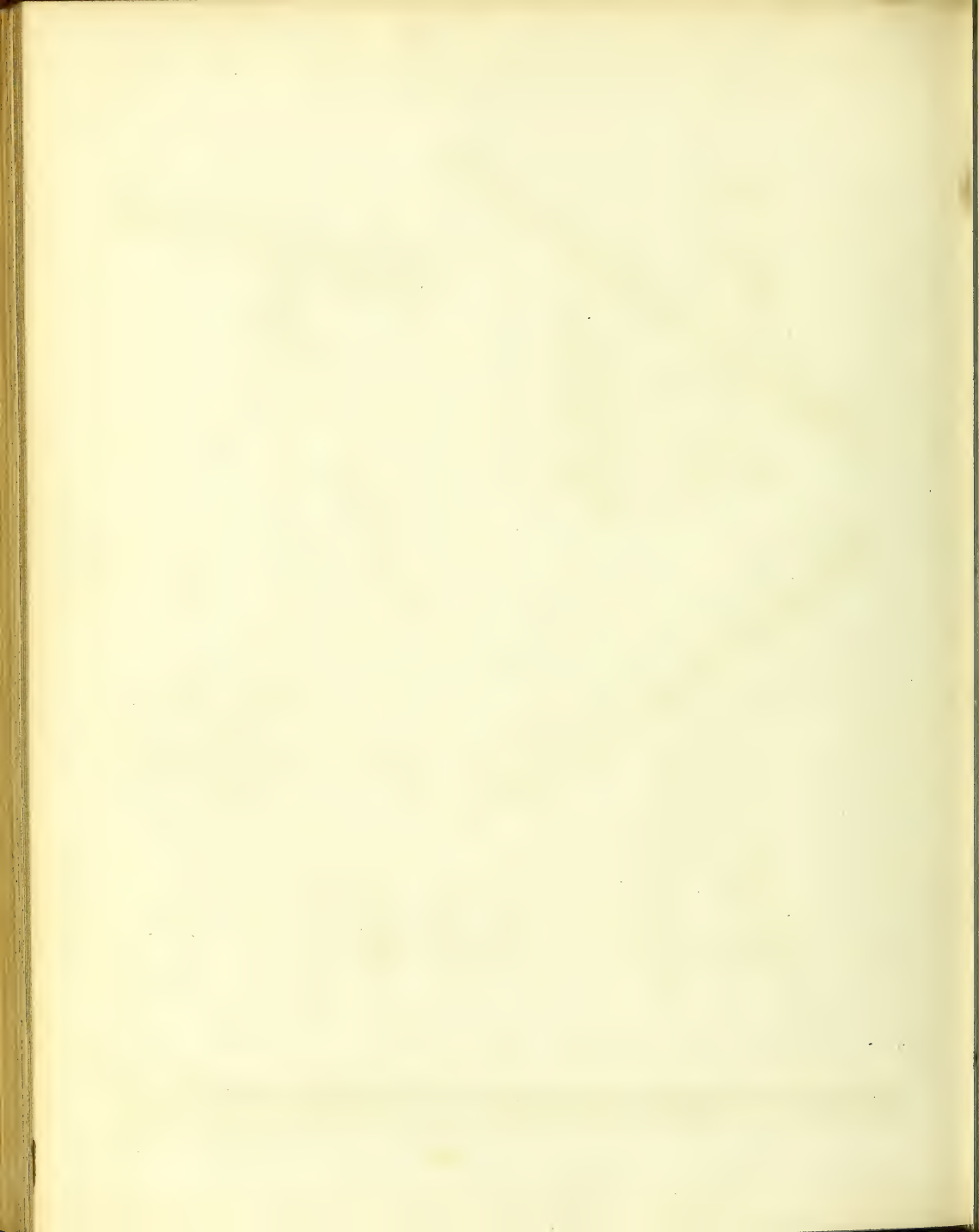
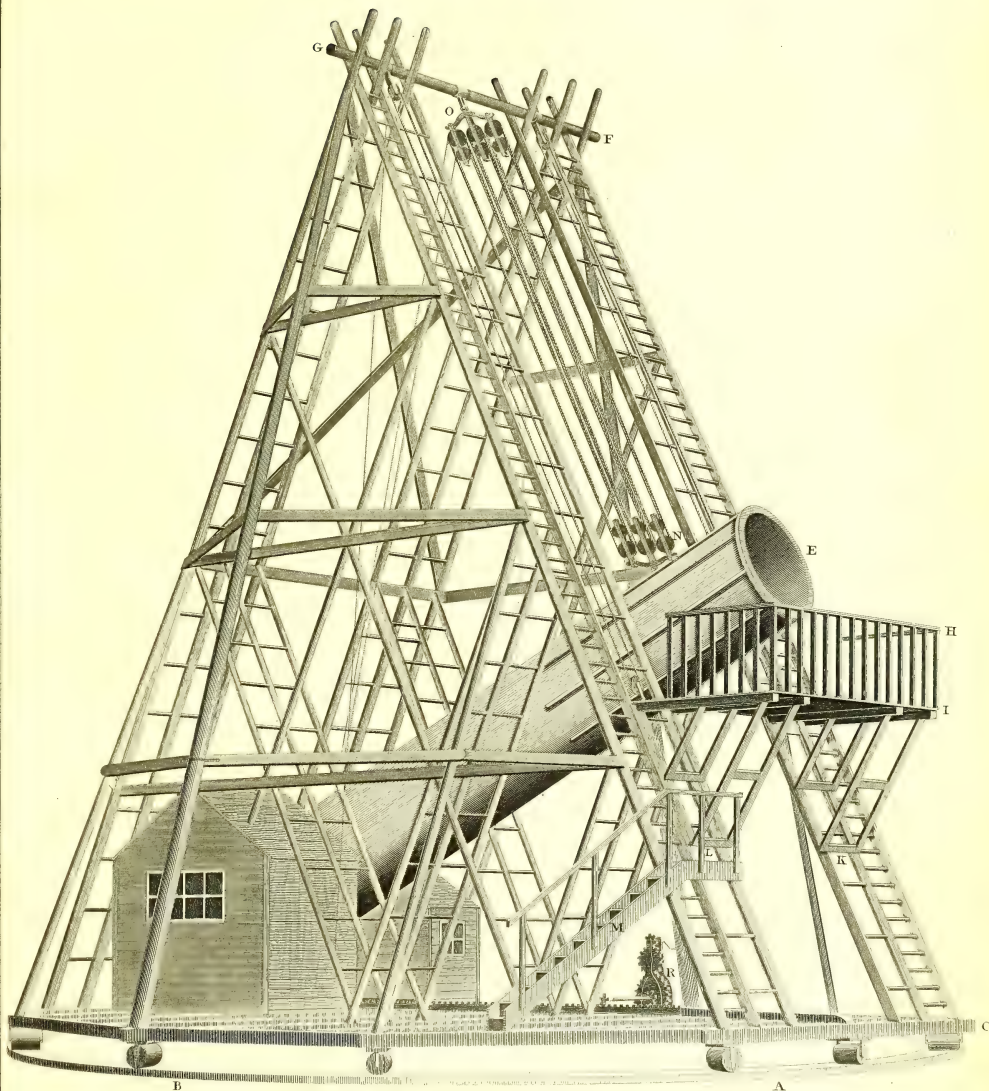


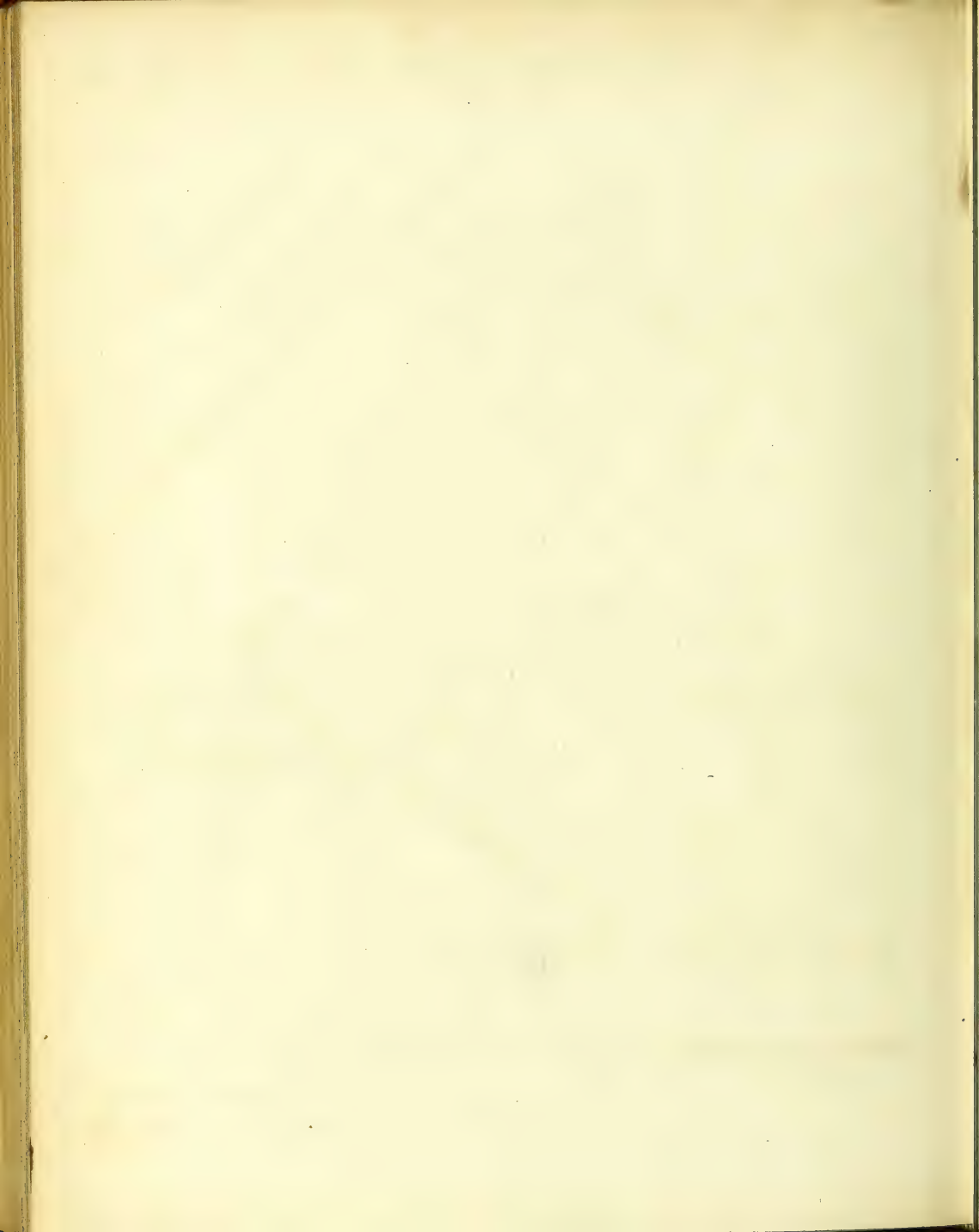
Fig. 5.

Scale of Minutes, divided Object Glass.
Scale of Minutes, single Object Glass.



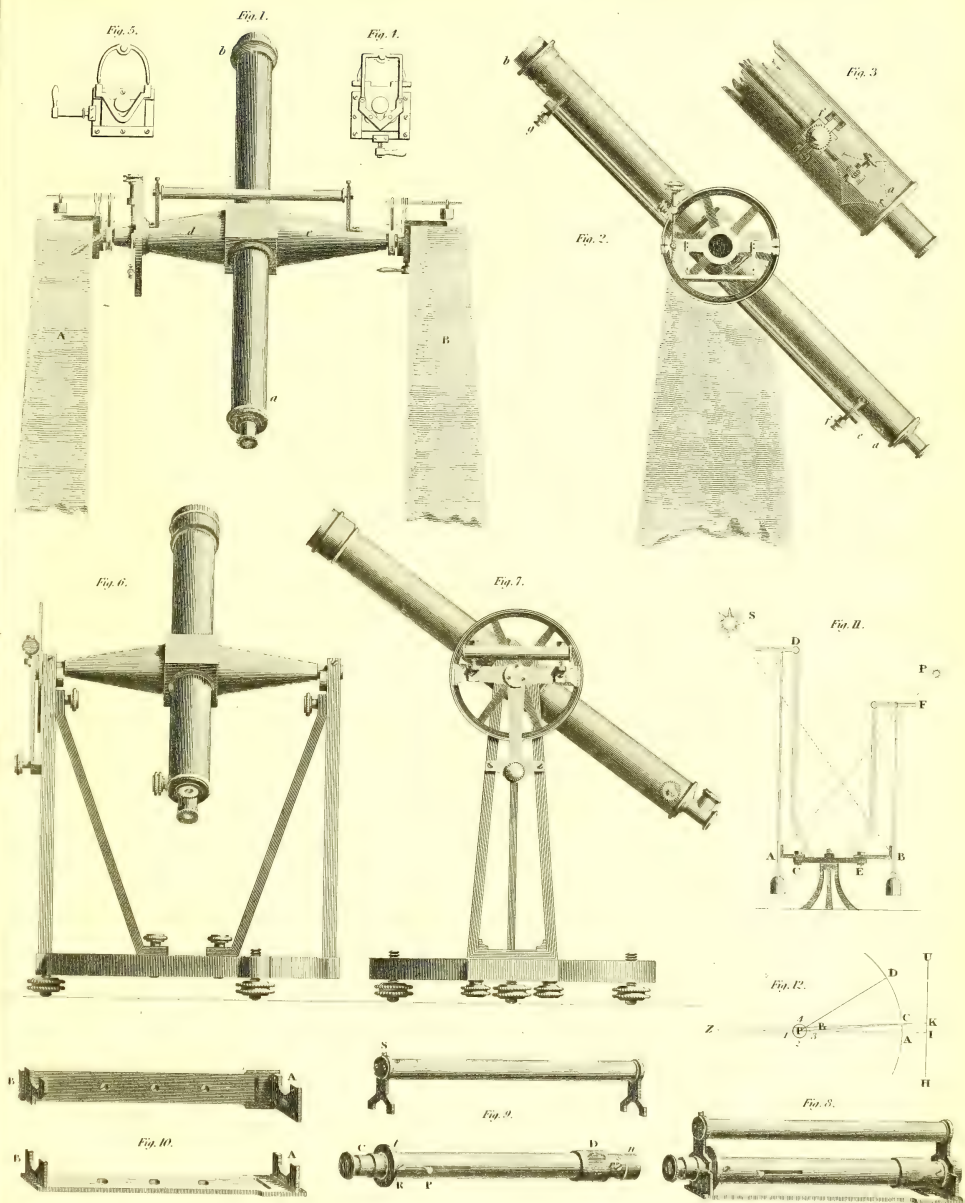
D^r HERSCHEL'S,
Forty Feet Reflecting
TELESCOPE.

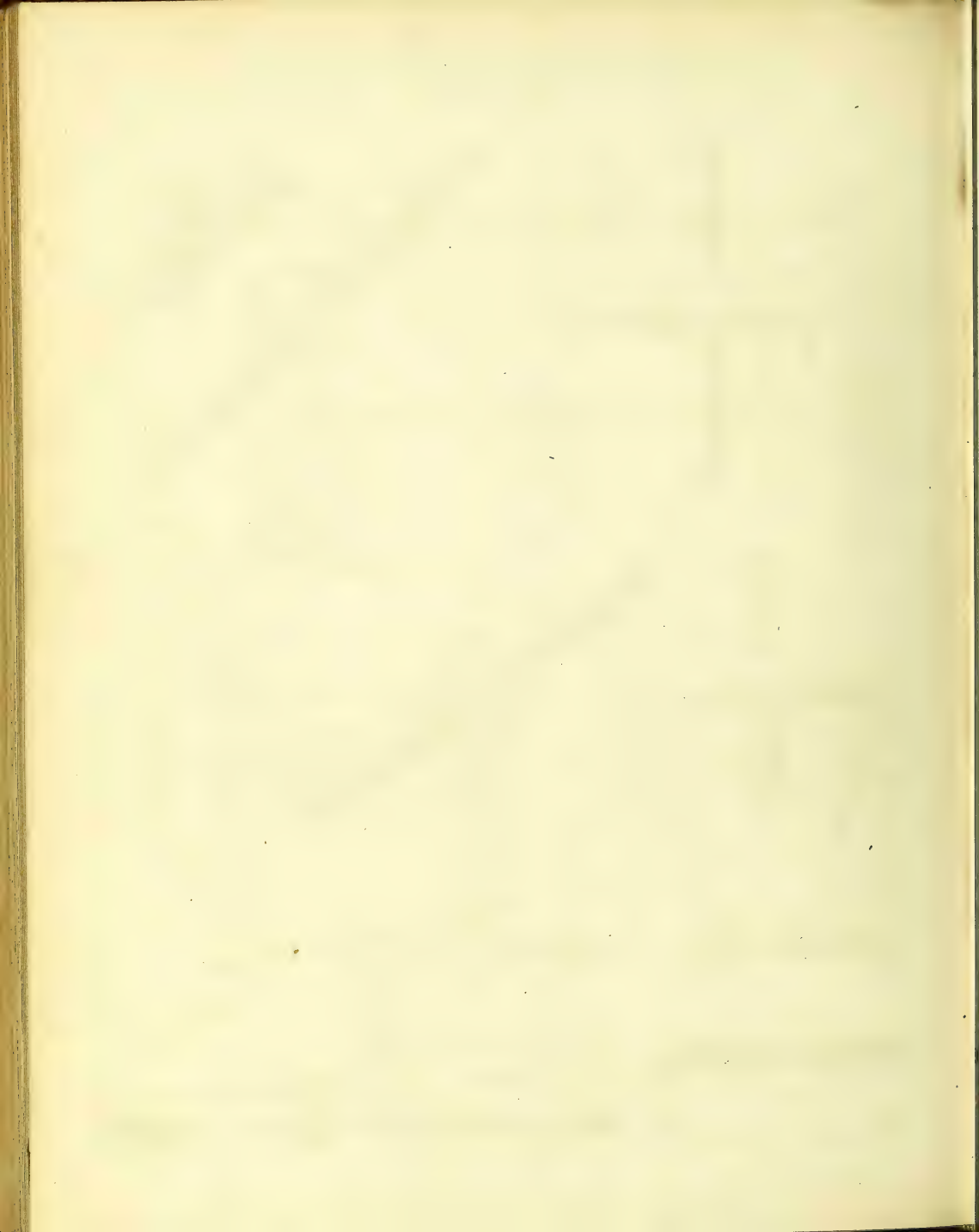




ASTRONOMICAL INSTRUMENTS. TRANSIT INSTRUMENTS.

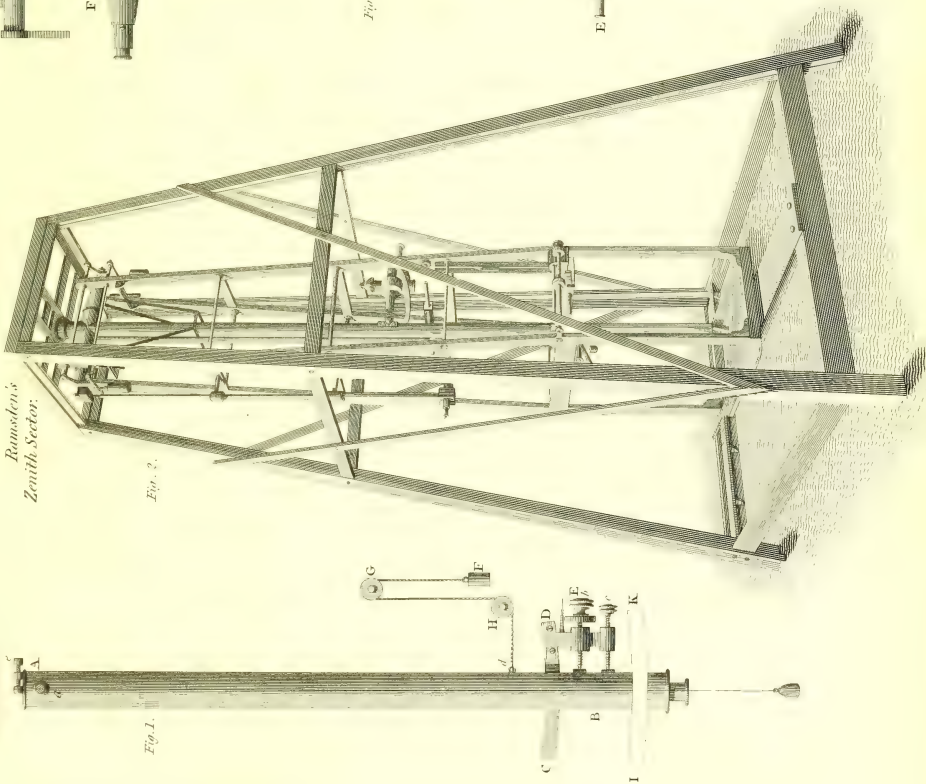
PLATE XXVII.



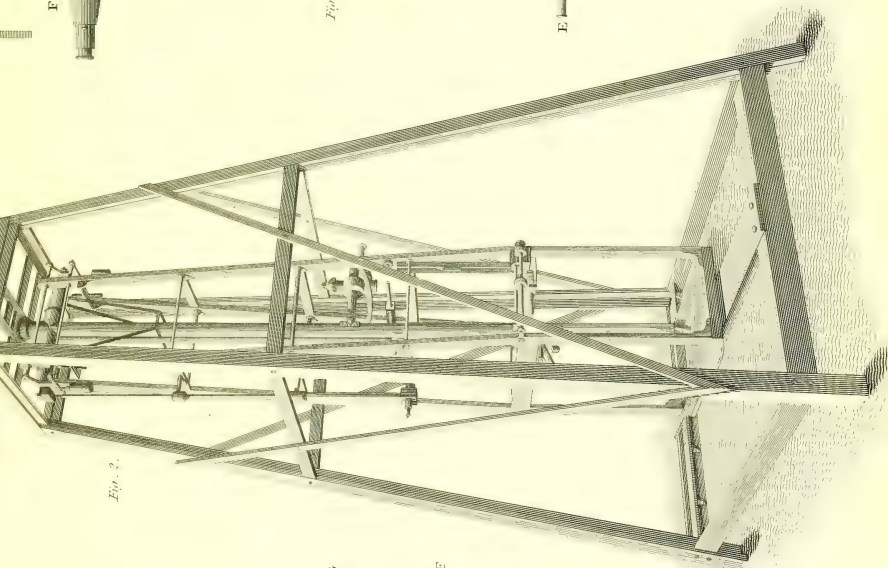


ZENITH SECTOR.

Graham's
Zenith Sector.



Ramsden's
Zenith Sector.



Dollond's
Zenith Micrometer.

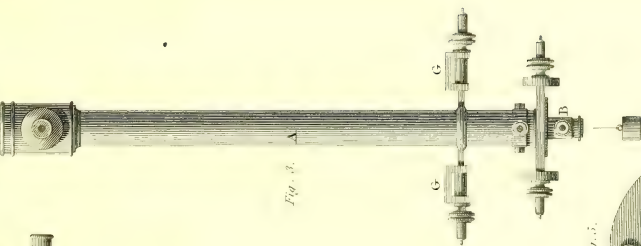


Fig. 4.

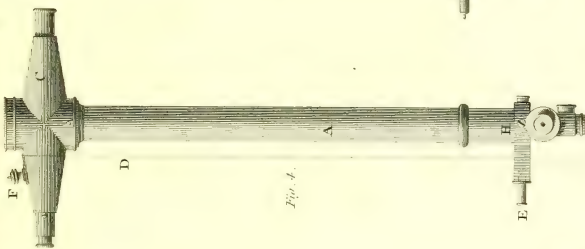


Fig. 5.

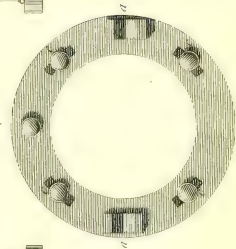


Fig. 6.



